Xpress Monoclonal Antibody

Catalog Number: R910-25

<table>
<thead>
<tr>
<th>Details</th>
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<tr>
<td>Size</td>
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<td>Host/Isotype</td>
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<td>Class</td>
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<tr>
<td>Type</td>
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<tr>
<td>Immunogen</td>
<td>Xpress synthetic peptide Asp-Leu-Tyr-Asp-Asp-Asp-Lys</td>
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<tr>
<td>Conjugate</td>
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<td>Form</td>
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<tr>
<td>Contains</td>
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<td>Storage Conditions</td>
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<table>
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<th>Species Reactivity</th>
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<tr>
<td>Species reactivity</td>
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<td>Published species</td>
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<tr>
<th>Tested Applications</th>
<th>Dilution *</th>
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<tr>
<td>ELISA (ELISA)</td>
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<tr>
<td>Immunofluorescence (IF)</td>
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<td>Immunoprecipitation (IP)</td>
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<tr>
<td>Western Blot (WB)</td>
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<tr>
<th>Published Applications</th>
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<tr>
<td>Western Blot (WB)</td>
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<tr>
<td>Immunofluorescence (IF)</td>
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<tr>
<td>Immunocytochemistry (ICC)</td>
<td>See 3 publications below</td>
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<tr>
<td>Miscellaneous PubMed (MISC)</td>
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<tr>
<td>Immunoprecipitation (IP)</td>
<td>See 5 publications below</td>
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<tr>
<td>Neutralization (Neu)</td>
<td>See 1 publications below</td>
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</table>

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

**Product specific information**

NOTE: R910-25 was previously sold under product #46-0528. When re-ordering, please use #R910-25. R910-25 is designed to specifically interact with the Xpress™ leader peptide (-Asp-Leu-Tyr-Asp-Asp-Asp-Asp-Lys-). R910-25 is tested in Western blot against 100 ng of an E. coli expressed fusion protein containing the Xpress epitope. This product contains enough material for 25 Western blots.

**Background/Target Information**

Epitope tags provide a method to localize gene products in a variety of cell types, study the topology of proteins and protein complexes, identify associated proteins, and characterize newly identified, low abundance or poorly immunogenic proteins when protein specific antibodies are not available. Epitope tag detection with an unconjugated antibody requires the use of a secondary antibody that carries a reporter for detection. Unconjugated antibodies let you choose the detection method which best suits your needs. They are also useful for the detection of weak signals, since a secondary antibody can amplify the signal. Xpress sequence: DLYDDDDK (Asp-Leu-Tyr-Asp-Asp-Asp-Asp-Lys).


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<tr>
<td>R910-25 was used in western blot to investigate the role of MBD2/dMTase as a transcriptional repressor and a DNA methylase.</td>
<td></td>
</tr>
<tr>
<td>Not Applicable / 1:5000</td>
<td>The Journal of biological chemistry (Sep 2002; 277: 35791) &quot;Promoter-specific activation and demethylation by MBD2/demethylase.&quot; Author(s): Detich N, Theberge J, Szyf M PubMed Article URL:<a href="http://dx.doi.org/10.1074/jbc.C20408200">http://dx.doi.org/10.1074/jbc.C20408200</a></td>
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<tr>
<td>R910-25 was used in western blot to determine if the p38 MAP kinase regulates the transcriptional activity of AP-1 in macrophages.</td>
<td></td>
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<tr>
<td>Not Applicable / 1:1000</td>
<td>The Journal of biological chemistry (Sep 2001; 276: 33826) &quot;The absence of activator protein 1-dependent gene expression in THP-1 macrophages stimulated with phorbol esters is due to lack of p38 mitogen-activated protein kinase activation.&quot; Author(s): Carter AB, Tephy LA, Hunninghake GW PubMed Article URL:<a href="http://dx.doi.org/10.1074/jbc.M10209200">http://dx.doi.org/10.1074/jbc.M10209200</a></td>
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<td>R910-25 was used in western blot to analyze altered amyloid beta 42 production in conjunction with conformational changes in transmembrane domain 4 of presenilin 1.</td>
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<td>R910-25 was used in western blot to determine which regions in FOXC1 are required for nuclear localization and transcriptional regulation.</td>
<td></td>
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<tr>
<td>Not Applicable / Not Cited</td>
<td>The Journal of biological chemistry (Mar 2002; 277: 10292) &quot;FOXC1 transcriptional regulation is mediated by N- and C-terminal activation domains and contains a phosphorylated transcriptional inhibitory domain.&quot; Author(s): Berry FB, Saleem RA, Walter MA PubMed Article URL:<a href="http://dx.doi.org/10.1074/jbc.M10266200">http://dx.doi.org/10.1074/jbc.M10266200</a></td>
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<td>R910-25 was used in western blot to study the effects of phosphorylation and palmitoylation on the activation of rPLD1 by constitutively active Galpha(13)Q226L and Galpha(q)Q209L.</td>
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<tr>
<td>Not Applicable / Not Cited</td>
<td>Molecular and cellular biology (Sep 1998; 18: 4977) &quot;Regulation of alternative polyadenylation by U1 snRNPs and SRp20.&quot; Author(s): Lou H, Neugebauer KM, Gagel RF, Berget SM PubMed Article URL:<a href="http://dx.doi.org/null">http://dx.doi.org/null</a></td>
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<tr>
<td>R910-25 was used in western blot to investigate the role of SRp20 in alternative polyadenylation.</td>
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<tr>
<td>Not Applicable / Not Cited</td>
<td>The Journal of biological chemistry (Apr 2002; 277: 11979) &quot;Mechanisms of regulation of phospholipase D1 and D2 by the heterotrimERIC G proteins G13 and Gq.&quot; Author(s): Xie Z, Ho WT, Spellman R, Cai S, Exton JH PubMed Article URL:<a href="http://dx.doi.org/10.1074/jbc.M109751200">http://dx.doi.org/10.1074/jbc.M109751200</a></td>
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<td>R910-25 was used in western blot to study the effects of decreased cellular ceramide glycosylation on drug sensitivity and adriamycin resistance in breast cancer cells.</td>
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</table>
R910-25 was used in Western Blotting to suggest that yeast ubiquitin chain elongation factors E4, Ufd2p, functions by switching ubiquitin chain linkages to allow proteasome degradation of proteins modified with atypical ubiquitin linkage.

Yeast / 1:2000

Not Applicable / 1:2000

"Ufd2p synthesizes branched ubiquitin chains to promote the degradation of substrates modified with atypical chains."

Author(s): Liu C, Liu W, Ye Y, Li W

PubMed Article URL: http://dx.doi.org/10.1038/ncomms14274

R910-25 was used in western blot to identify and characterize FOG-2, a modulator of GATA-4 function during cardiac development

Not Applicable / Not Cited

Proceedings of the National Academy of Sciences of the United States of America (Feb 1999; 96: 956)

"Molecular cloning of FOG-2: a modulator of transcription factor GATA-4 in cardiomyocytes."

Author(s): Svensson EC, Tufts RL, Polk CE, Leiden JM

PubMed Article URL: http://dx.doi.org/10.1074/jbc.M107173200

R910-25 was used in western blot to investigate the effect of MDM2 oncoprotein on the expression of p63

Not Applicable / Not Cited

The Journal of biological chemistry (Jan 2002; 277: 2674)

"The human MDM2 oncoprotein increases the transcriptional activity and the protein level of the p53 homolog p63."

Author(s): Calabro V, Mansuetto G, Parisi T, Vivo M, Calogero RA, La Mantia G

PubMed Article URL: http://dx.doi.org/10.1074/jbc.M107173200

R910-25 was used in western blot to examine the contribution of USP15-TRIM25 to neuroinflammation

Not Applicable / 1:1000

USP15 regulates type I interferon response and is required for pathogenesis of neuroinflammation.


PubMed Article URL: http://dx.doi.org/10.1038/nri.3581

R910-25 was used in western blot to analyze inhibition of IL-17-mediated colon inflammation and tumorigenesis by ROR-gamma-t ubiquitination by Itch

Not Applicable / 1:3000

"Itch inhibits IL-17-mediated colon inflammation and tumorigenesis by ROR-1 ubiquitination."

Author(s): Kathania M, Khare P, Zeng M, Cantarel B, Zhang H, Ueno H, Venuprasad K

PubMed Article URL: http://dx.doi.org/10.1038/nri.3488

R910-25 was used in Western Blotting to demonstrate a role for HIF-1 methylation in regulating protein stability, thereby modulating biological output including retinal and tumour angiogenesis.

Mouse / 1:1000

"Methylation-dependent regulation of HIF-1 stability restricts retinal and tumour angiogenesis."


PubMed Article URL: http://dx.doi.org/10.1038/ncomms10347

R91025 was used in western blot to propose that ORP8 mediates the cytotoxicity of 25-hydroxycholesterol

Not Applicable / Not Cited

Journal of lipid research (Oct 2016; 57: 1845)

"Oxysterol binding protein-related protein 8 mediates the cytotoxicity of 25-hydroxycholesterol."

Author(s): Li J, Zheng X, Lou N, Zhong W, Yan D

PubMed Article URL: http://dx.doi.org/10.1194/jlr.M069906

R91025 was used in western blot to determine the extent of Legionella pneumophila maintenance of translocated substrates through a systematic analysis of effector-effector functional interaction

Not Applicable / Not Cited

Molecular systems biology (Dec 2016; 12: null)

"Diverse mechanisms of metaeffector activity in an intracellular bacterial pathogen, Legionella pneumophila."


PubMed Article URL: http://dx.doi.org/10.15252/msb.20167381

R910-25 was used in western blot to report the collective and comparative immunological analysis of all 4 egg white recombinant allergens.

Not Applicable / 0.5 µg/ml

Molecular immunology (May 2015; 65: 104)

"Production and immunological analysis of IgE reactive recombinant egg white allergens expressed in Escherichia coli."

Author(s): Dhanapala P, Doran T, Tang ML, Suphioglu C

PubMed Article URL: http://dx.doi.org/10.1016/j.molimm.2015.01.006


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R910-25 was used in western blot to develop the first three-dimensional model of a strict aminopeptidase, aminopeptidase A.

**Not Applicable / 1:5000**

The Journal of biological chemistry (Aug 2002; 277: 29242)  
"Contribution of molecular modeling and site-directed mutagenesis to the identification of two structural residues, Arg-220 and Asp-227, in aminopeptidase A."  
Author(s): Rozenfeld R, Iturroz X, Maigret B, Llorens-Cortes C  
PubMed Article URL: http://dx.doi.org/10.1074/jbc.M204406200

R910-25 was used in western blot to provide mechanistic insights into how Itch function is regulated during inflammatory signaling.

**Not Applicable / Not Cited**

"Ndfp1 regulates itch ligase activity and airway inflammation via UbCH7."  
Author(s): Kathania M, Zeng M, Yadav VN, Moghaddam SJ, Yang B, Venuprasad K  
PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1402742

R910-25 was used in western blot to study the functional differences between the mouse and human ARF proteins.

**Not Applicable / Not Cited**

The Journal of biological chemistry (Sep 2002; 277: 36665)  
"A major functional difference between the mouse and human ARF tumor suppressor proteins."  
Author(s): Wadhwa R, Sugihara T, Hasan MK, Taira K, Reddel RR, Kaul SC  
PubMed Article URL: http://dx.doi.org/10.1074/jbc.M203222200

R910-25 was used in Western Blotting to suggest that over-expression of ERβ1 in the presence of ERα is associated with tamoxifen sensitivity but negatively modulates ERα-mediated growth.

**Human / Not Cited**

Journal of molecular endocrinology (Apr 2005; 34: 553)  
"Inducible upregulation of oestrogen receptor-beta1 affects oestrogen and tamoxifen responsiveness in MCF7 human breast cancer cells."  
Author(s): Murphy LC, Peng B, Lewis A, Davie JR, Leygue E, Kemp A, Ung K, Vendetti M, Shiu R  
PubMed Article URL: http://dx.doi.org/10.1677/jme.1.01688

R910-25 was used in Western Blotting to propose a model where the interplay between 7SK snRNA and oppositely charged regions in HEXIM1 direct its binding to P-TEFb and subcellular localization that culminates in the inhibition of transcription.

**Human / Not Cited**

The EMBO journal (Dec 2005; 24: 4291)  
"Interplay between 7SK snRNA and oppositely charged regions in HEXIM1 direct the inhibition of P-TEFb."  
Author(s): Barboric M, Kohoutek J, Price JP, Blazek D, Price DH, Peterlin BM  
PubMed Article URL: http://dx.doi.org/10.1038/sj.emboj.7600883

R910-25 was used in Western Blotting to propose a model where the interplay between 7SK snRNA and oppositely charged regions in HEXIM1 direct its binding to P-TEFb and subcellular localization that culminates in the inhibition of transcription.

**Human / 1:1000**

Pediatric research (Aug 2014; 76: 211)  
"Rare GATA5 sequence variants identified in individuals with bicuspid aortic valve."  
Author(s): Bonachea EM, Chang SW, Zender G, LaHaye S, Fitzgerald-Butt S, McBride KL, Garg V  
PubMed Article URL: http://dx.doi.org/10.1038/pr.2014.67

R910-25 was used in western blot to identify a DNA-demethylating enzyme.

**Not Applicable / Not Cited**

Nature (Feb 1999; 397: 579)  
"A mammalian protein with specific demethylase activity for mCpG DNA."  
Author(s): Bhattacharya SK, Ramchandani S, Cervoni N, Szylf M  
PubMed Article URL: http://dx.doi.org/10.1038/17533

R910-25 was used in western blot to elucidate the mechanism of osterix regulation by post-translational modification.

**Not Applicable / Not Cited**

Molecular and cellular endocrinology (Jan 2015; 400: 32)  
"Prolyl isomerase Pin1 regulates the osteogenic activity of Osterix."  
Author(s): Lee SH, Jeong HM, Han Y, Cheong H, Kang BY, Lee KY  
PubMed Article URL: http://dx.doi.org/10.1016/j.mce.2014.11.017

R910-25 was used in western blot to study the effect of protein kinase A on activation-induced cytidine deaminase.

**Not Applicable / Not Cited**

Nature immunology (Apr 2009; 10: 420)  
"Specific recruitment of protein kinase A to the immunoglobulin locus regulates class-switch recombination."  
Author(s): Vuong BQ, Lee M, Kabir S, Irimia C, Macchiarulo S, McKnight GS, Chaudhuri J  
PubMed Article URL: http://dx.doi.org/10.1038/ni.1708

PubMed Article URL: http://dx.doi.org/10.1038/pr.2014.67

PubMed Article URL: http://dx.doi.org/10.1016/j.mce.2014.11.017

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R910-25 was used in western blot to study the interactions between Vav and Bcr-Abl

The Journal of biological chemistry (Apr 2002; 277: 12437)

"Association of Bcr-Abl with the proto-oncogene Vav is implicated in activation of the Rac-1 pathway."

Author(s): Bassermann F, Jahn T, Miethe C, Seipel P, Bai RY, Coutinho S, Tybulewicz VL, Peschel C, Duyster J

PubMed Article URL:http://dx.doi.org/10.1074/jbc.M112397200

R910-25 was used in western blot to determine the role of Pdcd4-eIF4A interactions during translation initiation

RNA (New York, N.Y.) (Mar 2005; 11: 261)

"Mutational analysis of the DEAD-box RNA helicase eIF4All characterizes its interaction with transformation suppressor Pdcd4 and eIF4G I."

Author(s): Zakowicz H, Yang HS, Stark C, Wlodawer A, Laronde-Leblanc N, Colburn NH

PubMed Article URL:http://dx.doi.org/10.1261/rna.7191905

R910-25 was used in western blot to analyze the role of CED-4 in delivering ced-3 mRNA to ribosomes

Biochemical and biophysical research communications (Jan 2016; 470: 48)

"CED-4 is an mRNA-binding protein that delivers ced-3 mRNA to ribosomes."

Author(s): Wang MX, Itoh M, Li S, Hida Y, Ohka K, Hayakawa M, Nishiida E, Ueda M, Islam S, Nakagawa T

PubMed Article URL:http://dx.doi.org/10.1016/j.bbrc.2015.12.102

R910-25 was used in western blot to study inositol polyphosphate phosphatase metabolism and localization using Minpp1-deficient mice

Molecular and cellular biology (Sep 2000; 20: 6496)

"Targeted deletion of Minpp1 provides new insight into the activity of multiple inositol polyphosphate phosphatase in vivo."

Author(s): Chi H, Yang X, Kingsley PD, O’Keefe RJ, Puzas JE, Rosier RN, Shears SB, Reynolds PR

PubMed Article URL:http://dx.doi.org/10.1093/nar/gkx118

R910-25 was used in western blot to study the contribution of Rab2 on PKCiota/lambda and GAPDH recruitment to vesicular tubular clusters and microtubule dynamics in the early secretory pathway

The Journal of biological chemistry (Feb 2002; 277: 3334)

"Glyceraldehyde-3-phosphate dehydrogenase is phosphorylated by protein kinase Ciota/lambda and plays a role in microtubule dynamics in the early secretory pathway."

Author(s): Tisdale EJ

PubMed Article URL:http://dx.doi.org/10.1074/jbc.M109744200

1 Immunofluorescence References

Species / Dilution

Rat / 1:300

Summary

The Journal of neuroscience: the official journal of the Society for Neuroscience (May 2014; 34: 7361)

"Regulating Set’s Subcellular Localization Toggles Its Function between Inhibiting and Promoting Axon Growth and Regeneration."


3 Immunocytochemistry References

Species / Dilution

Summary

The Journal of biological chemistry (Apr 2002; 277: 12437)

"Association of Bcr-Abl with the proto-oncogene Vav is implicated in activation of the Rac-1 pathway."

Author(s): Bassermann F, Jahn T, Miethe C, Seipel P, Bai RY, Coutinho S, Tybulewicz VL, Peschel C, Duyster J

PubMed Article URL:http://dx.doi.org/10.1074/jbc.M112397200

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Author(s): Wang MX, Itoh M, Li S, Hida Y, Ohka K, Hayakawa M, Nishiida E, Ueda M, Islam S, Nakagawa T

PubMed Article URL:http://dx.doi.org/10.1016/j.bbrc.2015.12.102

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"Targeted deletion of Minpp1 provides new insight into the activity of multiple inositol polyphosphate phosphatase in vivo."

Author(s): Chi H, Yang X, Kingsley PD, O’Keefe RJ, Puzas JE, Rosier RN, Shears SB, Reynolds PR

PubMed Article URL:http://dx.doi.org/10.1093/nar/gkx118

R910-25 was used in western blot to study the contribution of Rab2 on PKCiota/lambda and GAPDH recruitment to vesicular tubular clusters and microtubule dynamics in the early secretory pathway

The Journal of biological chemistry (Feb 2002; 277: 3334)

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PubMed Article URL:http://dx.doi.org/10.1074/jbc.M109744200

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The Journal of neuroscience: the official journal of the Society for Neuroscience (May 2014; 34: 7361)

"Regulating Set’s Subcellular Localization Toggles Its Function between Inhibiting and Promoting Axon Growth and Regeneration."


3 Immunocytochemistry References

Species / Dilution

Summary
R910-25 was used in immunocytochemistry to study Rab11-FIP2 and Rab11 in endosomal trafficking

The Journal of biological chemistry (Jul 2002; 277: 27193)
"Rab11-FIP2 functions in transferrin recycling and associates with endosomal membranes via its COOH-terminal domain."
Author(s):Lindsay AJ,McCaffrey MW
PubMed Article URL:http://dx.doi.org/10.1074/jbc.M200757200

R910-25 was used in immunocytochemistry to determine if recombinant human scFvs specific to the envelope of the West Nile virus are therapeutic

Journal of virology (Dec 2005; 79: 14606)
"Protective and therapeutic capacity of human single-chain Fv-Fc fusion proteins against West Nile virus."

R910-25 was used in immunocytochemistry to characterize the nuclear functions of ZO-2

Experimental cell research (Jul 2004; 297: 247)
"Characterization of the tight junction protein ZO-2 localized at the nucleus of epithelial cells."
Author(s):Jaramillo BE,Ponce A,Moreno J,Betanzos A,Huerta M,Lopez-Bayghen E,Gonzalez-Mariscal L
PubMed Article URL:http://dx.doi.org/10.1016/j.jexcr.2004.03.021

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<td>was used in western blot to report that TMEM119 distinguishes resident microglia from blood-derived macrophages</td>
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<td>R910-25</td>
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<tr>
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<td>was used in immunoprecipitation to describe a novel role for IKAP in the regulating the activation of the mammalian stress response</td>
</tr>
<tr>
<td>R910-25</td>
<td>was used in immunoprecipitation to identify and study NEDD4 binding partners in the mid-gestation embryo</td>
</tr>
<tr>
<td>R910-25</td>
<td>was used in immunoprecipitation to show that Dorfin protects neurons by ubiquitilyating mutant SOD1 proteins thus targeting them for proteasomal degradation</td>
</tr>
</tbody>
</table>


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<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable / 1:1000</td>
<td>R910-25 was used in immunoprecipitation to determine the function of Ku80 domains</td>
</tr>
<tr>
<td>Not Applicable / Not Cited</td>
<td>R910-25 was used in immunoprecipitation to identify PEN-2 as a critical component of PS1/gamma-secretase and PS2/gamma-secretase complexes</td>
</tr>
</tbody>
</table>

**1 Neutralization References**

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<tr>
<td>Not Applicable / Not Cited</td>
<td>R910-25 was used in blocking or activating experiment to study SmTCTP, the Schistosoma mansoni homologue of the mammalian translationally controlled tumor protein (TCTP)</td>
</tr>
</tbody>
</table>