DYKDDDDK Tag Polyclonal Antibody

Catalog Number: PA1-984B

**Details**

- **Size**: 200 µg
- **Host/Isotope**: Rabbit / IgG
- **Class**: Polyclonal
- **Type**: Antibody
- **Immunogen**: Synthetic Peptide: D Y K D D D D K C
- **Conjugate**: Unconjugated
- **Form**: Liquid
- **Concentration**: 1 mg/mL
- **Purification**: Antigen affinity chromatography
- **Storage buffer**: PBS with 1mg/mL BSA
- **Contains**: 0.05% sodium azide
- **Storage Conditions**: -20°C, Avoid Freeze/Thaw Cycles

**Species Reactivity**

- **Species reactivity**: Tag
- **Published species**: Tag

**Tested Applications**

- **Dilution**:
  - Western Blot (WB): 1:500
  - Immunocytochemistry (ICC/IF): 1 µg/mL

**Published Applications**

- **Immunocytochemistry (ICC/IF)**: See 12 publications below
- **Immunoprecipitation (IP)**: See 7 publications below
- **Western Blot (WB)**: See 32 publications below
- **Functional Assay (FN)**: See 1 publications below
- **ChIP assay (ChIP)**: See 1 publications below
- **Immunohistochemistry (IHC)**: See 2 publications below
- **Flow Cytometry (Flow)**: See 1 publications below
- **Miscellaneous PubMed (Misc)**: See 1 publications below
- **Gel Shift (GS)**: See 1 publications below

* 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**

PA1-984B detects the DYKDDDDK epitope tag sequence, similar to the FLAG tag from Sigma. PA1-984B has been successfully used in Western blot and immunofluorescence procedures to detect the presence of fusion proteins containing the epitope tag sequence DYKDDDDK. PA1-984B immunizing peptide corresponds to the epitope tag sequence DYKDDDKC. This peptide (Cat. # PEP-087) is available for use in neutralization and control experiments.

**Background/Target Information**

DYKDDDDK tag, also known as FLAG tag, is a short peptide sequence that is commonly used as a protein tag to facilitate protein purification, detection, and localization. The tag consists of eight amino acids: Asp-Tyr-Lys-Asp-Asp-Asp-Lys. It is often fused to the N- or C-terminus of a protein of interest, allowing for easy identification and isolation of the protein using anti-FLAG antibodies. The DYKDDDDK tag is widely used in molecular biology and biochemistry research, and has been employed in various applications, such as protein-protein interaction studies, protein expression analysis, and protein localization studies. The FLAG tag structure has been optimized for compatibility with the proteins it is attached to, in that it is more hydrophilic than other common epitope tags and therefore less likely to denature or inactivate proteins to which it is appended. FLAG is a registered trademark of Merck KGaA, Darmstadt, Germany.

**Product Images For DYKDDDDD Tag Polyclonal Antibody**

**Fig. 1**

**DYKDDDDD Tag Antibody (PA1-984B) in WB**

Western blot of recombinant protein containing the epitope tag sequence DYKDDDDD using Product # PA1-984B.
<table>
<thead>
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<td><strong>Cell (Aug 2021; 184: 4531)&quot;Ribosome ADP-ribosylation inhibits translation and maintains proteostasis in cancers.&quot; Author(s):Challa S,Khpulatea BR,Nandu T,Camacho CV,Fuyu KW,Chen HP,Lea JS,Kraus WL PubMed Article URL <a href="http://dx.doi.org/10.1016/j.cell.2021.07.005">http://dx.doi.org/10.1016/j.cell.2021.07.005</a></strong></td>
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Author(s): Herrmann A, Jungnickl D, Cordsmeier A, Peter AS, Uberla K, Ensser A
PubMed Article URL:http://dx.doi.org/10.3390/ijms221910188

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PA1-984B was used in Immunocytochemistry-immunofluorescence to investigate if several polar transmembrane residues in PGAM5 distant from the cleavage site serve as key determinants for its PARL-catalyzed cleavage.

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The Journal of biological chemistry (Sep 2022; 298: )  
"Cleavage of mitochondrial homeostasis regulator PGAM5 by the intramembrane protease PARL is governed by transmembrane helix dynamics and oligomeric state."
Author(s): Siebert V, Silber M, Heuten E, Muhle-Goll C, Lemberg MK
PubMed Article URL:http://dx.doi.org/10.1016/j.jbc.2022.102321

Tag / 1:1,000
PA1-984B was used in Immunocytochemistry-immunofluorescence to reveal that phosphorylation sites may serve as a molecular switch and influence the affinity of the PDZ binding domain for its binding partners.

Tag / 1:500
Scientific reports (Oct 2020; 10: )  
"Phosphorylation of Connexin36 near the C-terminus switches binding affinities for PDZ-domain and 14-3-3 proteins in vitro."
PubMed Article URL:http://dx.doi.org/10.1038/s41598-020-75375-0

Tag / Not Cited
Nature communications (Nov 2019; 10: )  
"Designing yeast as plant-like hyperaccumulators for heavy metals."
Author(s): Sun GL, Reynolds EE, Belcher AM
PubMed Article URL:http://dx.doi.org/10.1038/s41467-019-13093-6

7 Immunoprecipitation References

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<td>PA1984B was used in immunoprecipitation to identify homologous to the E6-AP carboxyl terminus as a ubiquitin ligase for modulator of apoptosis protein 1</td>
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Oncogene (Mar 2017; 36: 1698)  
"Downregulation of the proapoptotic protein MOAP-1 by the UBR5 ubiquitin ligase and its role in ovarian cancer resistance to cisplatin."
Author(s): Matsuura K, Huang NJ, Cocce K, Zhang L, Kornbluth S
PubMed Article URL:http://dx.doi.org/10.1038/onc.2016.336

Tag / Not Cited
Molecular cell (May 2018; 70: 650)  
"RNA Helicase DDX1 Converts RNA G-Quadruplex Structures into R-Loops to Promote IgH Class Switch Recombination."
Author(s): Ribeiro de Almeida C, Dhir S, Dhir A, Moghaddam AE, Sattentau Q, Meinhart A, Proudfoot NJ
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PA1-984B was used in Immunoprecipitation to provide evidence for how S-region transcripts interconvert between G4 and R-loop structures to promote IgH class switch recombination.

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"Disrupted-in-schizophrenia 1 (DISC1) and Syntaphilin collaborate to modulate axonal mitochondrial anchoring."
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The EMBO journal (Jul 2018; 37: )  
"Dimer-specific immunoprecipitation of active caspase-2 identifies TRAF proteins as novel activators."
Author(s): Robeson AC, Lindblom KR, Wojton J, Kornbluth S, Matsuura K
PubMed Article URL:http://dx.doi.org/10.1038/embj.201797072


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Tag / Not Cited

Cell death discovery (May 2022; 8: )
"CircEIF3H-IGF2BP2-HuR scaffold complex promotes TNBC progression via stabilizing HSPD1/RBM8A/G3BP1 mRNA."
PubMed Article URL: http://dx.doi.org/10.1038/s41440-022-01055-9

PA1-984B was used in Immunoprecipitation to identify novel proteins that are important for NMJ organization.

Tag / Not Cited

Frontiers in molecular neuroscience (Sep 2020; 13: )
"Arhgef5 Binds -Dystrobrevin 1 and Regulates Neuromuscular Junction Integrity."
Author(s): Bernardzki KM, Daszczuk P, Rojek KO, Pziski M, Gawor M, Pradhan BS, de Cicco T, Bijata M, Bijata K, Wodarczyk J, Prószyski TJ, Niewiadomski P
PubMed Article URL: http://dx.doi.org/10.3389/fnmol.2020.00104

PA1-984B was used in Immunoprecipitation to demonstrate that the oscillation of DISC1 expression is under the control of CLOCK and BMAL1, and that DISC1 contributes to the core circadian system by regulating BMAL1 stability.

Tag / Not Cited

Translational psychiatry (Feb 2021; 11: )
"Disrupted-in-schizophrenia 1 enhances the quality of circadian rhythm by stabilizing BMAL1."
PubMed Article URL: http://dx.doi.org/10.1038/s41398-021-01212-1

32 Western Blot References

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Cell (Aug 2021; 184: 4531)
"Ribosome ADP-ribosylation inhibits translation and maintains proteostasis in cancers."
Author(s): Challa S, Khupatena BR, Nandu T, Camacho CV, Ryu KW, Chen H, Peng Y, Lea JS, Kraus WL
PubMed Article URL: http://dx.doi.org/10.1016/j.cell.2021.07.005

PA1-984B was used in Western blotting to elucidate the importance of NIPA phosphorylation by NPM-ALK for the interaction of the two proteins and proliferation potential of respective cells: Silencing of the five crucial NIPA serine/threonine residues led to a highly enhanced NIPA-NPM-ALK binding capacity as well as a slightly reduced proliferation in Ba/F3 cells.

Tag / Not Cited

"Proteomic Phosphosite Analysis Identified Crucial NPM-ALK-Mediated NIPA Serine and Threonine Residues."
Author(s): Gengenbacher A, Müller-Rudorf A, Poggio T, Graßel L, Dumit VI, Kreutmair S, Lippert LJ, Duyster J, Illert AL
PubMed Article URL: http://dx.doi.org/10.3390/ijms20164060

PA1-984B was used in Western Blot to demonstrate that an intracellularly accumulated recombinant protein is released following prophage activation.

Tag / Not Cited

Applied and environmental microbiology (May 2019; 85:)
"Exploiting Prophage-Mediated Lysis for Biotherapeutic Release by <i>Lactobacillus reuteri</i>."
Author(s): Alexander LM, Oh JH, Stapleton DS, Schueler KL, Keller MP, Atlie AD, van Pijkeren JP
PubMed Article URL: http://dx.doi.org/10.1128/AEM.02335-18

PA1-984B was used in Western Blotting to indicate that partial loss of function of C9ORF72 synergizes with Ataxin-2 toxicity, suggesting a double-hit pathological mechanism in ALS-FTD.

Tag / Not Cited

The EMBO journal (Jun 2016; 35: 1276)
"Loss of C9ORF72 impairs autophagy and synergizes with polyQ Ataxin-2 to induce motor neuron dysfunction and cell death."
PubMed Article URL: http://dx.doi.org/10.15252/embj.201593350

PA1-984B was used in Western Blot, Immunoprecipitation to study the regulatory control of BubR1 and the effect of BubR1 on centrosome amplification by BubR1.

Tag / Not Cited

Molecular and cellular biology (May 2005; 25: 4046)
"Transcriptional control of BubR1 by p53 and suppression of centrosome amplification by BubR1."
Author(s): Oikawa T, Okuda M, Ma Z, Goorha R, Tsujimoto H, Inokuma H, Fukasawa K

For research use only. Not for use in diagnostic procedures. Not for resale without express authorization.
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PA1-984B was used in Western Blot to show that single CTCs from melanoma patients coordinately upregulate lipogenesis and iron homeostasis pathways.

Tag / 1:1000

Science signaling (Sep 2017; 10; )

"The RNA-editing enzyme ADAR promotes lung adenocarcinoma migration and invasion by stabilizing <b>FAK</b>.

Author(s): Amin EM, Liu Y, Deng S, Tan KS, Chudgar N, Mayo MW, Sanchez-Vega F, Adusumilli PS, Schultz N, Jones DR

PubMed Article URL: http://dx.doi.org/10.1126/scisignal.aah3941

PA1-984B was used in Western Blot to study the mechanism by which adenosine deaminase acting on double-stranded RNA facilitates the progression of lung adenocarcinoma.

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Life science alliance (Apr 2019; 2:)
“Human CST suppresses origin licensing and promotes AND-1/Ctf4 chromatin association.”
Author(s): Wang Y, Brady KS, Caiello BP, Ackerson SM, Stewart JA
PubMed Article URL: http://dx.doi.org/10.26508/lsa.201800270

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Cells (Sep 2021; 10:)
“Formation of Non-Nucleoplasmic Proteasome Foci during the Late Stage of Hyperosmotic Stress.”
Author(s): Lee J, Le LT, HL, Kim E, Lee MJ
PubMed Article URL: http://dx.doi.org/10.3390/cells10092493

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“Non-invasive administration of AAV to target lung parenchymal cells and develop SARS-CoV-2-susceptible mice.”
PubMed Article URL: http://dx.doi.org/10.1007/s12191-022-02326-1

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"Poly(C)-binding Protein 2 Regulates the p53 Expression via Interactions with the 5'-Terminal Region of p53 mRNA."
Author(s): Janecki DM, Swiatkowska A, Sopotowska J, Urbanowicz A, Kabaciska M, Sopotowski K, Ciesioka J
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### 1 Functional Assay References

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Journal of immunology (Baltimore, Md. : 1950) (Apr 2021; 206: 1832)

"OTUD1 Regulates Antifungal Innate Immunity through Deubiquitination of CARD9."


PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.2001253

### 1 ChIP assay References

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"Human Cytomegalovirus Genomes Survive Mitosis via the IE19 Chromatin-Tethering Domain."

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### 2 Immunohistochemistry References

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"Truncated BRPF1 Cooperates with Smoothened to Promote Adult Shh Medulloblastoma."


PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2019.11.046

### 1 Flow Cytometry References

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