

# Prolactin Receptor Monoclonal Antibody (U5)

Product Details	
Size	100 µg
Species Reactivity	Horse, Human, Pig, Rabbit, Rat
Published Species	Baboon, Rabbit, Rat, Non-human primate, Bovine, Hamster, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	U5
Conjugate	Unconjugated
Immunogen	Purified rat liver PRL receptor.
Form	Lyophilized
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2171291

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	14 Publications
Immunohistochemistry (IHC)	-	11 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	5 µg/mL	6 Publications
Flow Cytometry (Flow)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	2 Publications
Neutralization (Neu)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

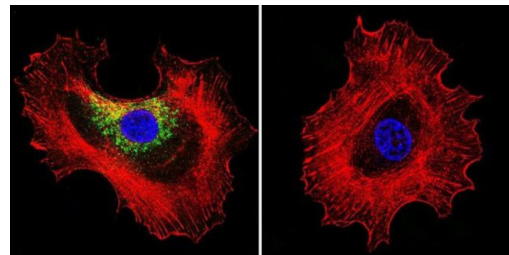
MA1-610 detects prolactin (PRL) receptor from rat, human, rabbit, horse, and pig tissues.

MA1-610 has been successfully used in Western blot, immunohistochemistry, immunocytochemistry, immunoprecipitation, immunofluorescence, and FACS procedures. By Western blot, this antibody detects an ~40 kDa protein and an ~100 kDa protein representing both the short and long forms of the PRL receptor, respectively, in various tissues. Immunohistochemical staining of PRL receptor in rat Islets of Langerhans with MA1-610 results in a staining pattern consistent with cytoplasmic vesicle staining. MA1-610, after biotinylation, has been used to detect human lymphocyte PRL receptor by FACS. MA1-610 does not inhibit the interaction of prolactin with the receptor.

The MA1-610 immunogen is purified PRL receptor from rat liver. This antibody has been shown to react with the extracellular portion of the receptor, but not in the ligand binding domain. MA1-610 does not inhibit the interaction of prolactin with the receptor.

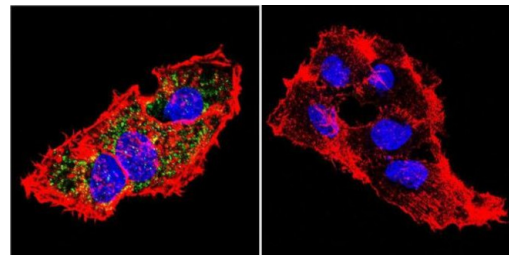
Reconstitute with 100 µL PBS.

**Product Images For Prolactin Receptor Monoclonal Antibody (U5)**



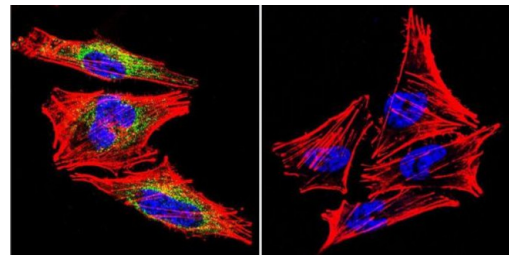
**Prolactin Receptor Antibody (MA1-610) in ICC/IF**

Immunofluorescent analysis of Prolactin Receptor using Prolactin Receptor Monoclonal Antibody (U5) (Product # MA1-610) shows staining in MCF-7 Cells. Prolactin Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Prolactin Receptor (Product # MA1-610) at a dilution of 1:20 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.



**Prolactin Receptor Antibody (MA1-610) in ICC/IF**

Immunofluorescent analysis of Prolactin Receptor using Prolactin Receptor Monoclonal Antibody (U5) (Product # MA1-610) shows staining in HepG2 Cells. Prolactin Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Prolactin Receptor (Product # MA1-610) at a dilution of 1:20 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.



**Prolactin Receptor Antibody (MA1-610) in ICC/IF**

Immunofluorescent analysis of Prolactin Receptor using Prolactin Receptor Monoclonal Antibody (U5) (Product # MA1-610) shows staining in A2058 Cells. Prolactin Receptor (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Prolactin Receptor (Product # MA1-610) at a dilution of 1:20 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.

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Western Blot (14)

<p>Journal of neuroendocrinology</p> <p><b>Prolactin and glucocorticoid receptors in the prefrontal cortex are associated with anxiety-like behavior in prenatally stressed adolescent offspring rats.</b></p> <p>"MA1-610 was used in Western Blotting to study the roles of PRL, corticosterone (CORT), and their receptors in PS-induced anxiety-like behavior in dams and their offspring and investigate whether chewing during maternal stress could prevent PS-induced harmful consequences."</p> <p>Authors: Yao D,Lu Y,Li L,Wang S,Mu Y,Ding C,Zhao J,Liu M,Xu M,Wu H,Dou C,Zhu Z,Li H</p>	<p>Year 2023</p> <p>Species Rat</p> <p>Dilution 1:1000</p>
<p>Neuroendocrinology</p> <p><b>Prolactin Reduces Hippocampal Parvalbumin and GABAA Receptor Expression in Female Mice.</b></p> <p>"Published figure using Prolactin Receptor monoclonal antibody (Product # MA1-610) in Western Blot"</p> <p>Authors: Mellado S,Moreno-Ruiz B,Expósito S,Fernández M,Martín ED</p>	<p>Year 2022</p>

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Immunohistochemistry (11)

<p>Animals : an open access journal from MDPI</p> <p><b>Prolactin Expression in the Baboon (<i>Papio hamadryas</i>) Eye.</b></p> <p>"MA1-610 was used in Immunohistochemistry to determine the expression of PRL and PRL receptor (PRLR) (mRNAs and proteins) in adult and fetal baboon (Papio hamadryas) ocular tissues."</p> <p>Authors: Garza-Rodríguez ML,Rodríguez-Sanchez IP,González-Álvarez R,Luna M,Burciaga-Flores CH,Alcorta-Nuñez F, Solis-Coronado O,Bautista de Lucio VM,Ramírez-Correa GA,Vidal-Gutiérrez O,Pérez-Ibave DC</p>	<p>Year 2022</p> <p>Species Baboon</p> <p>Dilution 1:250</p>
<p>Frontiers in genetics</p> <p><b>Prolactin and growth hormone affect metaphase-II chromosomes in aging oocytes via cumulus cells using similar signaling pathways.</b></p> <p>"Published figure using Prolactin Receptor monoclonal antibody (Product # MA1-610) in Immunocytochemistry"</p> <p>Authors: Lebedeva IY,Singina GN,Lopukhov AV,Shedova EN,Zinovieva NA</p>	<p>Year 2015</p> <p>Species Bovine</p>

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- ICC/IF (6)
- IP (2)
- Neu (1)
- Misc (1)

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