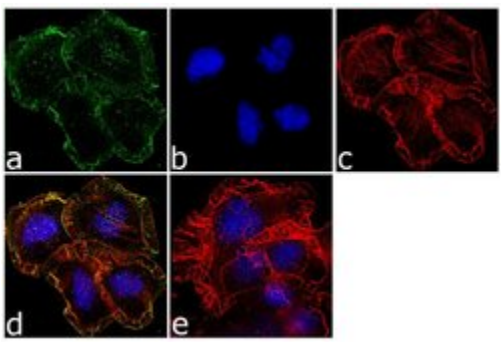
OPRM1 Polyclonal Antibody

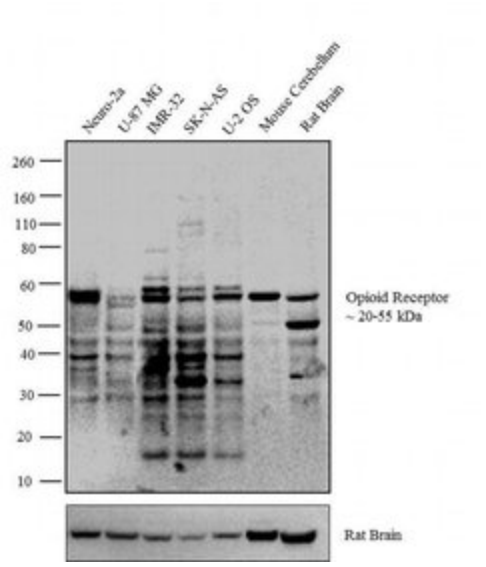
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rabbit, Rat
Published Species	Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized peptide derived from an internal region of the human m-opioid receptor.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA, 50% glycerol
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2533629

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	2 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:250	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Images For OPRM1 Polyclonal Antibody

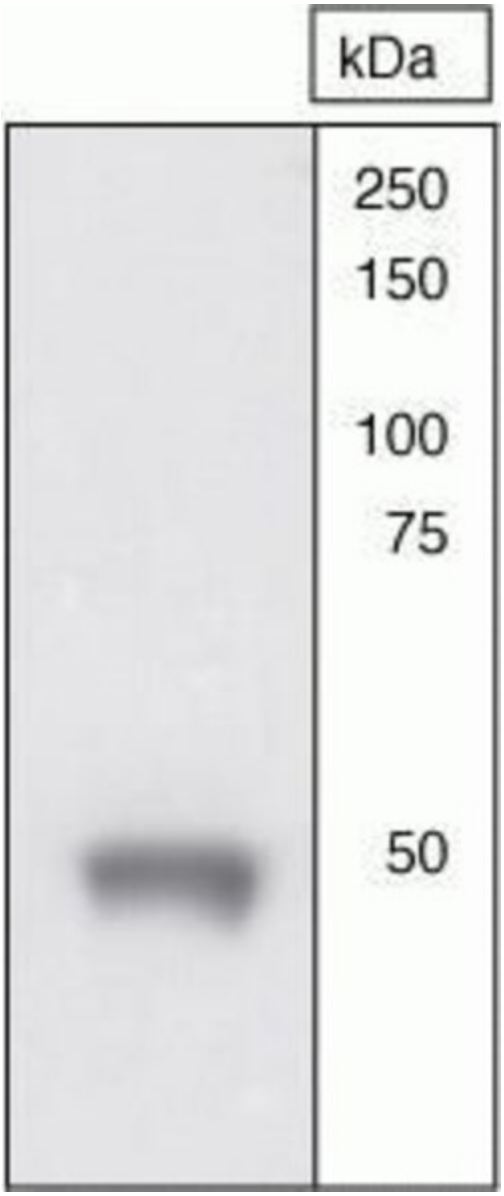


OPRM1 Antibody (44-308G) in ICC/IF
Immunofluorescence analysis of OPIOID RECEPTOR was performed using 70% confluent log phase Neuro-2A cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with OPRM1 Rabbit Polyclonal Antibody (Product # 44-308G) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing membranous localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



OPRM1 Antibody (44-308G) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of Neuro-2a (Lane 1), U-87 MG (Lane 2), IMR-32 (Lane 3), SK-N-AS (Lane 4), U-2 OS (Lane 5) and tissue extracts of Mouse Cerebellum (Lane 6) and Rat Brain (Lane 7). The blot was probed with Anti-Opioid Receptor Rabbit Polyclonal Antibody (Product # 44-308G, 1:250 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). Opioid Receptor has multiple isoforms ranging from 20 to 55 kDa, which appears as a ladder form across the cell lines and tissues tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE and reg; 10% Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



OPRM1 Antibody (44-308G) in WB

Western Blot. Extracts of rat brain lysates were resolved by SDS-PAGE on a 10% Tris-glycine gel and transferred to PVDF. The membrane was blocked with a 5% BSA-TBST buffer for one hour at room temperature and incubated with the µ-opioid receptor antibody for two hours at room temperature in a 1% BSA-TBST buffer. After washing, the membrane was incubated with goat F (ab')2 anti-rabbit IgG HRP conjugate (Product # ALI4404) and signals were detected using the Pierce SuperSignal™ method

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4 References

Western Blot (2)

Biochimica et biophysica acta

Familial hemiplegic migraine type 1 mutations W1684R and V1696I alter G protein-mediated regulation of Ca(V)2.1 voltage-gated calcium channels.

"44-308G was used in western blot to assess the effects of G protein-dependent modulation on mutations W684R and V696I which cause familial hemiplegic migraine type."

Authors: Garza-López E,Sandoval A,González-Ramírez R,Gandini MA,Van den Maagdenberg A,De Waard M,Felix R

Species
Human

Dilution
1:1000

Year
2012

Current neuropharmacology

Quantitative Detection of μ Opioid Receptor: Western Blot Analyses Using μ Opioid Receptor Knockout Mice.

"44-308G was used in western blot to assess different antibodies used to detect MOP."

Authors: Kasai S,Yamamoto H,Kamegaya E,Uhl GR,Sora I,Watanabe M,Ikeda K

Species
Mouse

Dilution
Not Cited

Year
2011

Immunohistochemistry (1)

The open orthopaedics journal

Changes in midbrain pain receptor expression, gait and behavioral sensitivity in a rat model of radiculopathy.

"44-308G was used in immunohistochemistry to assess gait and the expression of key pain receptors in the midbrain in a rodent model of radiculopathy."

Authors: Hwang PY,Allen KD,Shamji MF,Jing L,Mata BA,Gabr MA,Huebner JL,Kraus VB,Richardson WJ,Setton LA

Species
Rat

Dilution
Not Cited

Year
2012

Miscellaneous PubMed (1)

The open orthopaedics journal

Changes in midbrain pain receptor expression, gait and behavioral sensitivity in a rat model of radiculopathy.

"44-308G was used in immunohistochemistry to assess gait and the expression of key pain receptors in the midbrain in a rodent model of radiculopathy."

Authors: Hwang PY,Allen KD,Shamji MF,Jing L,Mata BA,Gabr MA,Huebner JL,Kraus VB,Richardson WJ,Setton LA

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