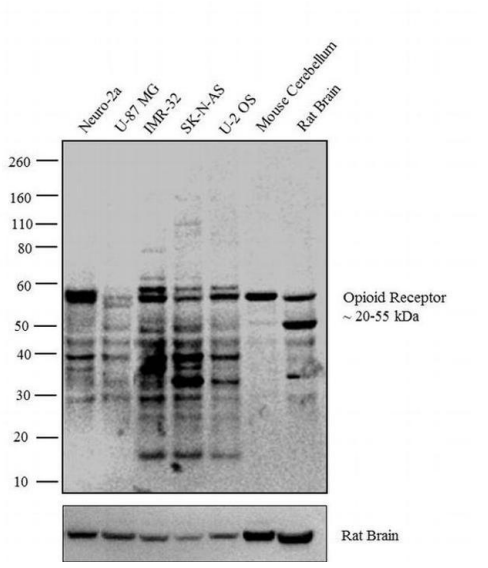
OPRM1 Polyclonal Antibody

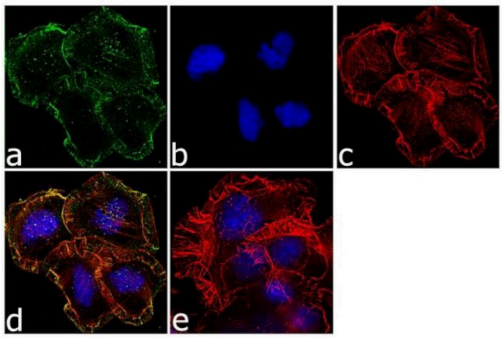
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rabbit, Rat
Published Species	Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized peptide derived from an internal region of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

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	3 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:250	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

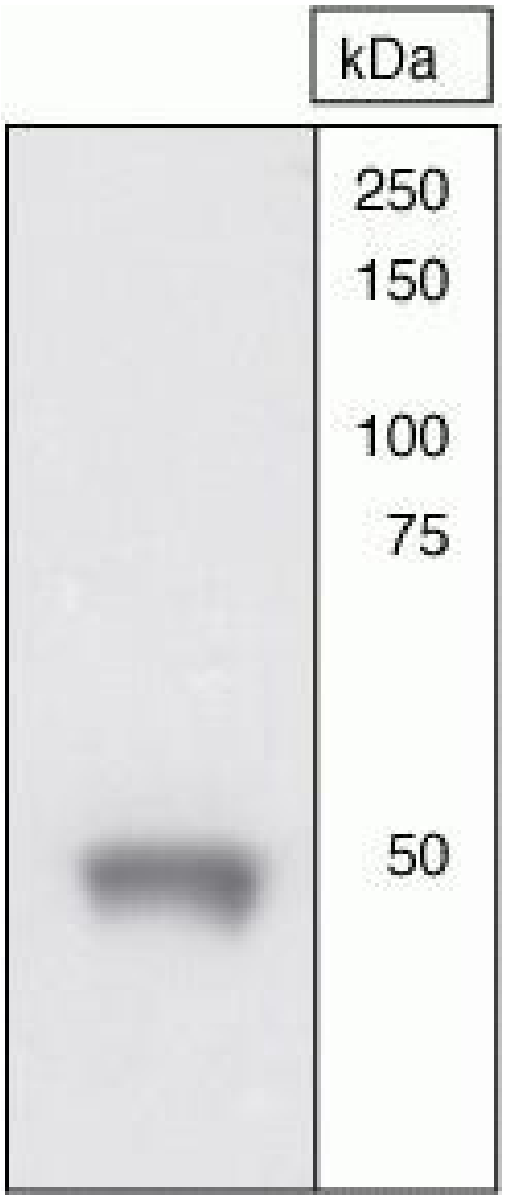
Product Images For OPRM1 Polyclonal Antibody



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 (Heavy Chain) 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 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 (Heavy Chain) 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. 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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6 References

Western Blot (3)

Neural regeneration research

Effects of electroacupuncture on pain sensation in a rat model of hyperalgesia with nicotine dependence.

"44-308G was used in Western Blotting to suggest that electroacupuncture treatment has positive analgesic effects on pain sensitivity caused by long-term chronic nicotine exposure."

Authors: Wang SJ,Zhang YP,Candiotti KA

Year 2022

Species Rat

Dilution 1:300

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

Year 2012

Species Human

Dilution 1:1000

View more WB references on thermofisher.cn

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

Year 2012

Species Rat

Immunocytochemistry (1)

American journal of translational research

Inhibition of mu-opioid receptor suppresses proliferation of hepatocellular carcinoma cells via CD147-p53-MAPK cascade signaling pathway.

"44-308G was used in Immunocytochemistry to investigate the role of muopioid receptor (MOR) in the proliferation of Hepatocellular carcinoma (HCC) cell lines and the underlying mechanism."

Authors: Zhang JJ,Song CG,Dai JM,Zhang XQ,Lin P,Li L,Yang XM,Chen ZN

Year 2021

Species Human

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Misc (1)