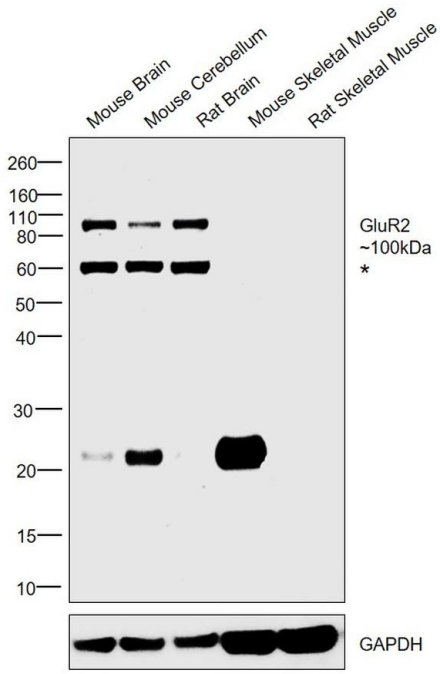
GluR2 Monoclonal Antibody (6C4)

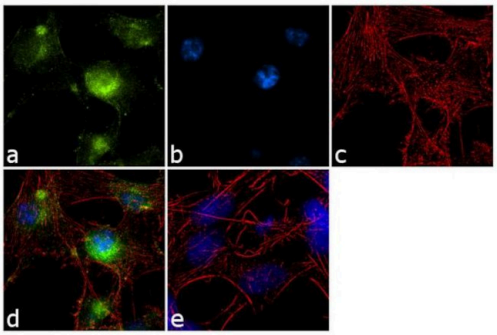
Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Rat, Non-human primate, Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	6C4
Conjugate	Unconjugated
Immunogen	Fusion protein containing amino acids 175-430 from the N-terminal region of GluR2.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533058

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	15 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:100	-
Immunocytochemistry (ICC/IF)	2 µg/mL	6 Publications
ELISA (ELISA)	0.5-5 µg/mL	-
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	2 Publications

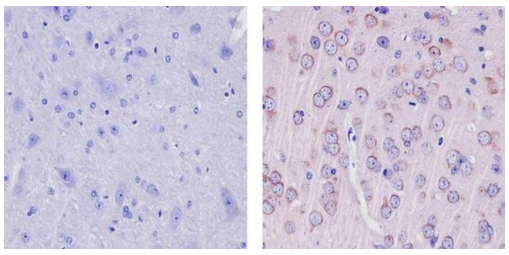
Product Images For GluR2 Monoclonal Antibody (6C4)



GluR2 Antibody (32-0300) in WB
Western blot was performed using Anti-GluR2 Monoclonal Antibody (6C4) (Product # 32-0300) and a 100kDa band corresponding to GluR2 was observed across tissues tested except Mouse Skeletal Muscle and Rat Skeletal Muscle. Tissue extracts (30 µg lysate) of Mouse Brain (Lane 1), Mouse Cerebellum (Lane 2), Rat Brain (Lane 3), Mouse Skeletal Muscle (Lane 4) and Rat Skeletal Muscle (Lane 5) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (2µg/ml) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). An uncharacterized band (*) was also observed at ~60kDa. A ~25kDa band corresponding to circulating tissue IgG was observed in the Mouse tissue lysates..



GluR2 Antibody (32-0300) in ICC/IF
Immunofluorescence analysis of GluR2 was performed using 70% confluent log phase SH-SY5Y 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 GluR2 (6C4) Mouse Monoclonal Antibody (Product # 32-0300) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) 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 Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows a no primary antibody control. The images were captured at 60X magnification.



GluR2 Antibody (32-0300) in IHC (P)
Immunohistochemistry analysis of GLUR2 showing staining in the membrane and weak staining in the cytoplasm of paraffin-embedded mouse brain tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a GLUR2 Mouse Monoclonal Antibody (Product # 32-0300) diluted in 3% BSA-PBS at a dilution of 1:100 for 1 hour at 37ºC in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

View more figures on thermofisher.com

29 References

Western Blot (15)

Science advances

Prickle promotes the formation and maintenance of glutamatergic synapses by stabilizing the intercellular planar cell polarity complex.

"Published figure using GluR2 monoclonal antibody (Product # 32-0300) in Western Blot"

Authors: Ban Y,Yu T,Feng B,Lorenz C,Wang X,Baker C,Zou Y

Year
2021

The Journal of neuroscience : the official journal of the Society for Neuroscience

Glutamate Receptor Trafficking and Protein Synthesis Mediate the Facilitation of LTP by Secreted Amyloid Precursor Protein-Alpha.

"Published figure using GluR2 monoclonal antibody (Product # 32-0300) in Western Blot"

Authors: Mockett BG,Guévremont D,Elder MK,Parfitt KD,Peppercorn K,Morrissey J,Singh A,Hintz TJ,Kochen L,Tom Dieck S,Schuman E,Tate WP,Williams JM,Abraham WC

Year
2019

View more WB references on thermofisher.com

Immunohistochemistry (5)

Journal of Alzheimer's disease : JAD

Evidence that Brain-Reactive Autoantibodies Contribute to Chronic Neuronal Internalization of Exogenous Amyloid-1-42 and Key Cell Surface Proteins During Alzheimer's Disease Pathogenesis.

"32-0300 was used in Immunohistochemistry to examine consequences of increased blood-brain barrier (BBB) permeability on the development of Alzheimer's disease (AD)-related pathology by tracking selected leaked plasma components and their interactions with neurons in vivo and in vitro."

Authors: Goldwaser EL,Acharya NK,Wu H,Godsey GA,Sarkar A,DeMarshall CA,Kosciuk MC,Nagele RG

Year
2021

Species
Human

Neurobiology of pain (Cambridge, Mass.)

Sex differences in the role of atypical PKC within the basolateral nucleus of the amygdala in a mouse hyperalgesic priming model.

"32-0300 was used in Immunohistochemistry to elucidate the molecular mechanisms in the basolateral nucleus of the amygdala (BLA) that modulate hyperalgesic priming, a pain plasticity model, in males and females."

Authors: Baptista-de-Souza D,Tavares-Ferreira D,Megat S,Sankaranarayanan I,Shiers S,Flores CM,Ghosh S,Luiz Nunes-de-Souza R,Canto-de-Souza A,Price TJ

Year
2020

Species
Mouse

Dilution
1:1000

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More applications with references on thermofisher.com

ICC/IF (6) **IP (1)** **Misc (2)**