

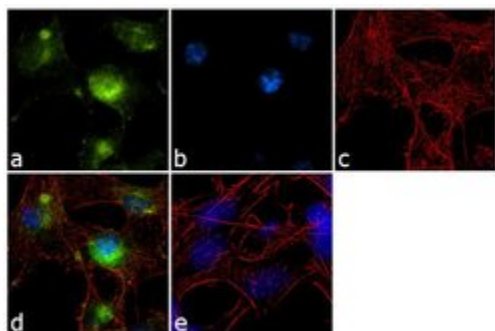
GluR2 Monoclonal Antibody (6C4)

Product Details

Size	100 µg
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Rat, Non-human primate, Mouse, Human
Host/Isotope	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

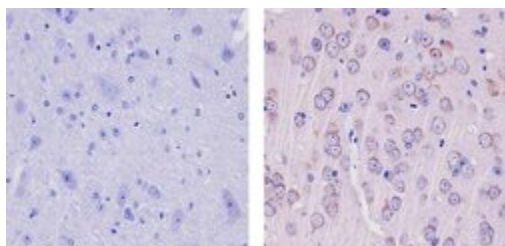
Applications	Tested Dilution	Publications
ELISA (ELISA)	0.5-5 µg/mL	-
Immunocytochemistry (ICC)	2 µg/mL	3 Publications
Immunofluorescence (IF)	2 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:100	-
Western Blot (WB)	2 µg/mL	12 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Images For GluR2 Monoclonal Antibody (6C4)



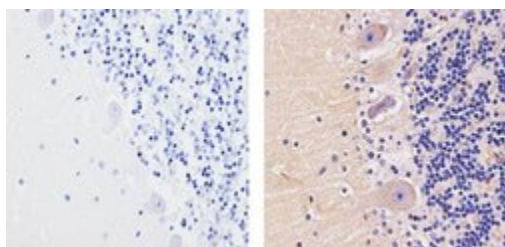
GluR2 Antibody (32-0300) in IF

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 37°C 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.



GluR2 Antibody (32-0300) in IHC (P)

Immunohistochemistry analysis of GLUR2 showing staining in the cytoplasm of paraffin-embedded human cerebellum 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 1:20 for 1 hour at 37°C 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](https://www.thermofisher.com)

Western Blot (12)

Neuron

The Temporal Dynamics of Arc Expression Regulate Cognitive Flexibility.

"32-0300 was used in Western Blotting to study how the precise temporal control of activity-dependent molecules, such as Arc, regulates synaptic plasticity and is crucial for cognition."

Authors: Wall MJ, Collins DR, Chery SL, Allen ZD, Pastuzyn ED, George AJ, Nikolova VD, Moy SS, Philpot BD, Shepherd JD, Müller J, Ehlers MD, Mabb AM, Corrêa SAL

Species
Mouse

Dilution
1:500

Year
2018

Nature communications

NMDA receptors are selectively partitioned into complexes and supercomplexes during synapse maturation.

"32-0300 was used in western blot to analyze selective partitioning into complexes and supercomplexes during synapse maturation by NMDA receptors"

Authors: Frank RA, Komiyama NH, Ryan TJ, Zhu F, O'Dell TJ, Grant SG

Species
Not Applicable

Dilution
Not Cited

Year
2016

[View more WB references on thermofisher.com](#)

Immunohistochemistry (3)

Psychopharmacology

Cocaine-induced plasticity in the cerebellum of sensitised mice.

"32-0300 was used in immunohistochemistry to study sensitized mice and cocaine-induced plasticity in the cerebellum"

Authors: Vazquez-Sanroman D, Carbo-Gas M, Leto K, Cerezo-Garcia M, Gil-Miravet I, Sanchis-Segura C, Carulli D, Rossi F, Miquel M

Species
Not Applicable

Dilution
1:75

Year
2015

Experimental neurology

Glutamate receptor subunit GluR2 and NMDAR1 immunoreactivity in the retina of macaque monkeys with experimental glaucoma does not identify vulnerable neurons.

Authors: Hof PR, Lee PY, Yeung G, Wang RF, Podos SM, Morrison JH

Species
Non-human primate

Dilution
Not Cited

Year
1998

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

ICC (3) Misc (1) IP (1) IF (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.