

# GABRA2 Monoclonal Antibody (S399-19)

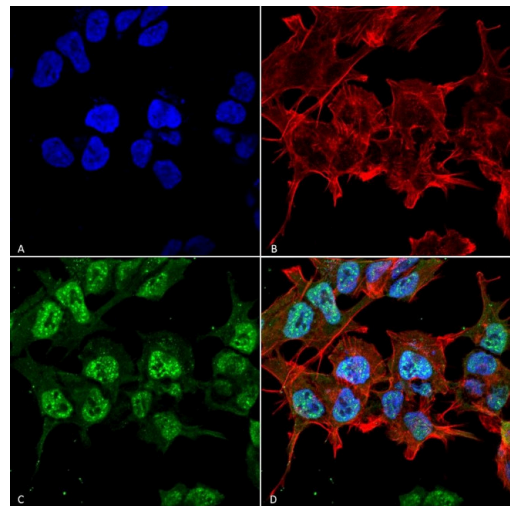
| Product Details    |   |
|--------------------|---|
| Size               | 100 µg  |
| Species Reactivity | Human, Mouse, Rat   |
| Published Species  | Mouse   |
| Host/Isotype       | Mouse / IgG1  |
| Class              | Monoclonal  |
| Type               | Antibody  |
| Clone              | S399-19   |
| Conjugate          | Unconjugated  |
| Immunogen          | Fusion protein amino acids 350-385 (Cytoplasmic C-terminus) of rat GABA-A Receptor Alpha2 |
| Form               | Liquid  |
| Concentration      | 1 mg/mL   |
| Purification       | Protein G   |
| Storage buffer     | PBS, pH 7.4, with 50% glycerol  |
| Contains           | 0.1% sodium azide   |
| Storage conditions | -20°C   |
| RRID               | AB_2735191  |

| Applications                                 | Tested Dilution | Publications  |
|--|-----------------|---------------|
| Western Blot (WB)                            | 1:1,000         | 1 Publication |
| Immunohistochemistry (PFA fixed) (IHC (PFA)) | 1:100           | -             |
| Immunocytochemistry (ICC/IF)                 | 1:1,000         | -             |

## Product Specific Information

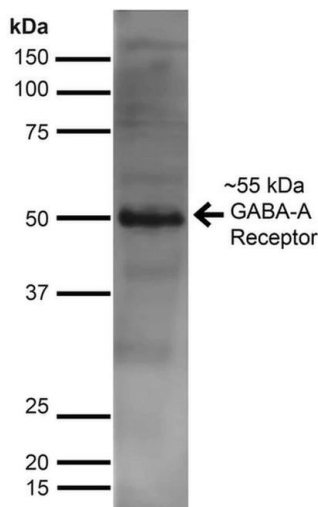
A 1:100 dilution of MA5-27702 was sufficient for detection of GABA-A R, Alpha2 in 20 µg of mouse brain lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody. |Detects approximately 55kDa. Does not cross-react with GABA-A Receptor Alpha1.

Product Images For GABRA2 Monoclonal Antibody (S399-19)



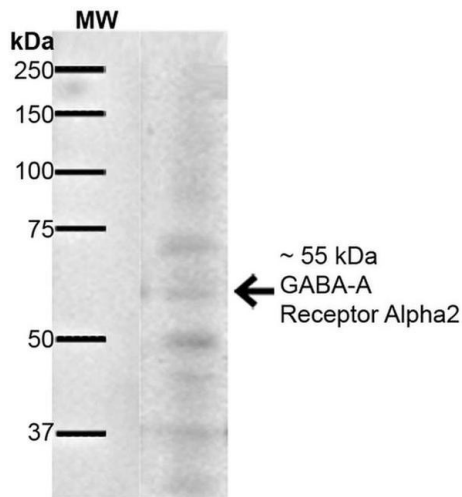
**GABRA2 Antibody (MA5-27702) in ICC/IF**

Immunofluorescent analysis of GABRA2 in human neuroblastoma cell line (SK-N-BE). Sample was fixed with 4% formaldehyde (15 min at RT), incubated with GABRA2 monoclonal antibody (Product # MA5-27702) using a dilution of 1:100 (1 hour at RT), and followed by Goat Anti-Mouse 488, Phalloidin Texas Red and DAPI secondary antibody at a dilution of 1:100, 1:1000 (60 min at RT) and 1:5000 (5 min at RT). Images are shown as follows: (A) DAPI (blue) nuclear stain, (B) Phalloidin Texas Red F-Actin stain, (C) GABA-A Receptor Alpha2 Antibody, (D) Merged image. Magnification: 60x.



**GABRA2 Antibody (MA5-27702) in WB**

Western blot analysis of GABRA2 in rat brain with 10 µg of sample. The sample was blocked with 5% skim milk in TBST, incubated with GABRA2 monoclonal antibody (Product # MA5-27702) using a dilution of 1:1000 (1 hour at RT), followed by Goat Anti-Mouse HRP (1 hour at RT) at a dilution of 1:200 and ECL development (6 min at RT). Samples were arranged as follows: Lane 1: MW Ladder, Lane 2: Rat Brain.



**GABRA2 Antibody (MA5-27702) in WB**

Western blot analysis of GABRA2 in mouse brain with 20 µg of sample. The sample was incubated with GABRA2 monoclonal antibody (Product # MA5-27702) using a dilution of 1:1000 (16 hours at 4°C), and followed by Goat Anti-Mouse (1 hour at RT) at a dilution of 1:200. Samples were arranged as follows: Lane 1) MW Ladder, Lane 2) Mouse Brain.

Western Blot (1)

|   |                    |
|---|--------------------|
| iScience  | Year<br>2021       |
| DNA repair enzyme NEIL3 enables a stable neural representation of space by shaping transcription in hippocampal neurons.  | Species<br>Mouse   |
| "MA5-27702 was used in Western Blot to identify a role of the DNA repair enzyme NEIL3 in modulating the maturation and function of hippocampal CA1 neurons by shaping the CA1 transcriptome during postnatal development and in association with spatial behavior." | Dilution<br>1:5000 |
| Authors: Kunath N,Bugaj AM,Bigonah P,Fernandez-Berrocal MS,Bjørås M,Ye J  |                    |

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