

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human mGluR8 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human mGluR1, 2, 3, 4, 5, or 7 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 476410
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human mGluR8 Gln34-Ser514 (predicted) Accession # O00222
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

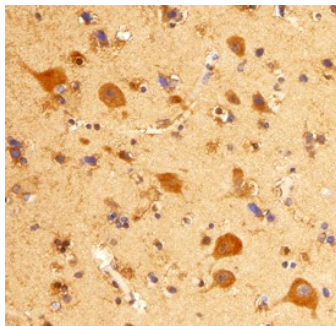
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Human mGluR8
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



mGluR8 in Human Brain. mGluR8 was detected in immersion fixed paraffin-embedded sections of human brain (hippocampus) using Mouse Anti-Human mGluR8 Monoclonal Antibody (Catalog # MAB5277) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

mGluR8 is a Group III metabotropic glutamate receptor. These 7-transmembrane glycoproteins are negatively coupled to adenylate cyclase and expressed presynaptically throughout the brain. mGluR8 shows pronounced expression in the dentate gyrus and CA3 regions of the hippocampus, and is thought to play a role in memory formation. Two splice forms, A and B, differ only in the C-terminal 16 amino acids (aa 893-909), while splice form C diverges at aa 454 and is truncated prior to the first transmembrane segment. Within the N-terminal extracellular region used as an immunogen (aa 34-514), human, mouse and rat mGluR8 share 98%-99% aa identity.