

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human mGluR3 in Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) mGluR2 is observed and less than 1% cross-reactivity with rhmGluR1, rhmGluR4, rhmGluR5, rhmGluR7, and rhmGluR8 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human mGluR3 Asp25-Ser507 Accession # Q14832
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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	0.1 µg/mL	Recombinant Human mGluR3

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

Metabotropic glutamate receptor 3 (mGluR3) is a 90-100 kDa, 7-transmembrane glycoprotein that belongs to group II of the C-family of G-protein coupled receptors. It is a presynaptic receptor expressed on both neurons and glia, whose activation reduces adenylate cyclase activity. Mature human mGluR3 is 857 amino acids in length and contains a 554 amino acid (aa) N-terminal extracellular domain (ECD) (aa 23-576). The ECD binds glutamate and forms homodimers. There is one alternative splice form that is soluble, 515 aa in length and shows a 96 aa substitution for aa 442-879. Over aa 25-507, human mGluR3 shares 97% aa sequence identity with mouse and rat mGluR3 and 67% aa sequence identity with hGluR2.