

Anti-GRM5 Antibody (8K741)

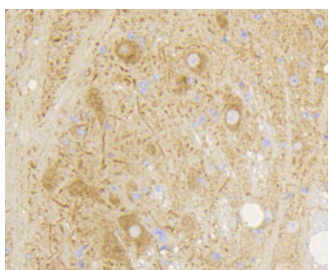
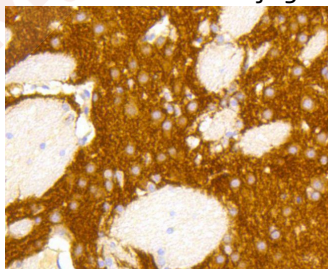
Product Details

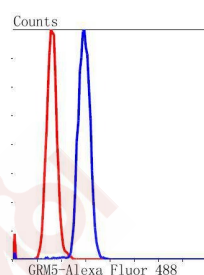
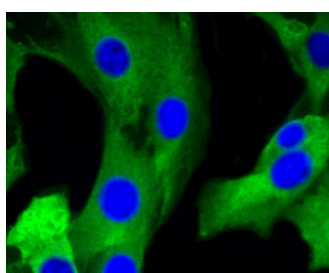
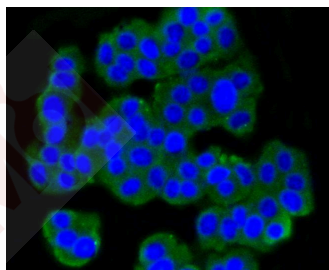
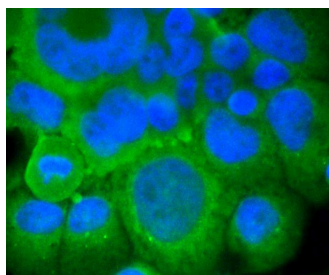
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 132 kDa.
Clone:	8K741
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-GRM5 antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-GRM5 antibody. Counter stained with hematoxylin.
3. ICC staining GRM5 in JAR cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. ICC staining GRM5 in PC12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining GRM5 in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. Flow cytometric analysis of SH-SY-5Y cells with GRM5 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM, ICC/IF, IHC, IP, WB

Recommended WB: 1:1000-2000; IHC: 1:200-500; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P41594

Synonyms: GRM5; mGluR5; GPRC1E; Metabotropic glutamate receptor 5

Research Background

The mGluR proteins (metabotropic Glutamate Receptors) are members of the G protein-coupled receptor family and are functionally and pharmacologically distinct from the GluR proteins (ionotropic Glutamate Receptors). The eight currently known mGluR proteins are mediated by two G proteins with opposing regulation of adenylate cyclase pathways. The activities of mGluR1 and mGluR5 are mediated by a G protein that activates a phosphatidylinositol-calcium second messenger system and generates a calcium-activated chloride current. The remainder of the eight

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sub-types of mGluR have an activity mediated by a G protein that inhibits adenylate cyclase activity. mGluR-5, which can interact with SIAH-1, RyR-1, RyR-2, ITPR1, Shank 1, Shank 3 and GRASP, acts as a receptor for glutamate. The PPXXf motif of mGluR-5 binds to HOM1, HOM2 and HOM3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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