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anti-GRM2 antibody (N-Term)

3 Images



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Overview

Quantity:	50 μg
Target:	GRM2
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Rabbit, Cow, Dog, Hamster, Bat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRM2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Paraffinembedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 19 amino acid peptide from N-terminal extracellular domain of human GRM2 / MGLUR2. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Marmoset, Mouse, Rat, Hamster, Elephant, Panda, Bovine, Dog, Bat, Rabbit, Pig (100%), Chimpanzee, Monkey, Horse, Platypus (95%).
	Type of Immunogen: Synthetic peptide
Specificity:	Human GRM2 / MGLUR2. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except GRM3 (42 %).
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Marmoset,

Product Details Mouse, Rat, Hamster, Elephant, Panda, Bovine, Dog, Bat, Rabbit, Pig (100%) Chimpanzee, Monkey, Horse, Platypus (95%). Purification: Immunoaffinity purified **Target Details** GRM2 Target: Alternative Name: GRM2 / MGLUR2 (GRM2 Products) Background: Name/Gene ID: GRM2 Subfamily: Metabotropic glutamate Family: GPCR Synonyms: GRM2, Glutamate receptor homolog, GPRC1B, MGlu2, Metabotropic, GLUR2, MGLUR2 2912 Gene ID: cAMP Metabolic Process, Dicarboxylic Acid Transport Pathways: **Application Details** Approved: ICC, IHC, IHC-P (5 - 10 µg/mL), WB Application Notes: Comment: Target Species of Antibody: Human Assay Procedure: The IHC-pro Immunohistochemistry Protocol **Tissue Preparation** Formalin fixation and embedding in paraffin wax **Tissue Sectioning** Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene - 5 minutes each at room temperature.

Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol - 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block - 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water - 1 minute at room temperature.

Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

Restrictions:

For Research Use only

Handling

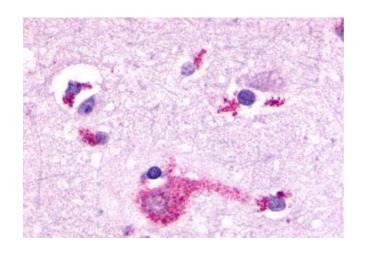
Format: Liquid

Concentration: Lot specific

Handling

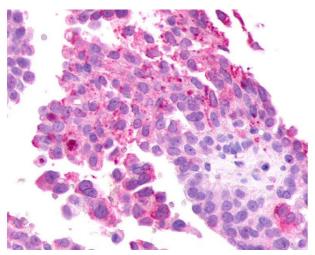
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



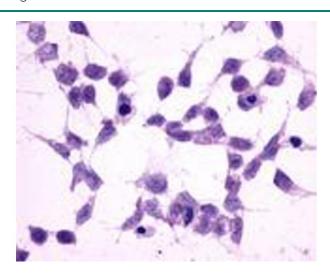
Immunohistochemistry

Image 1. Anti-GRM2 / MGLUR2 antibody ABIN1048929 IHC staining of human brain, neurons and glia. Immunohistochemistry of formalin-fixed, paraffinembedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-GRM2 / MGLUR2 antibody IHC of human Ovary, Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunocytochemistry

Image 3. Anti-GRM2 / MGLUR2 antibody immunocytochemistry (ICC) staining of untransfected HEK293 human embryonic kidney cells.