Datasheet for ABIN1048936

anti-Metabotropic Glutamate Receptor 4 antibody (N-Term)

2 Images

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Overview

Quantity:	50 µg
Target:	Metabotropic Glutamate Receptor 4 (GRM4)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Monkey, Pig, Rabbit, Cow, Dog, Horse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 19 amino acid peptide from N-terminal extracellular domain of human GRM4 / MGLUR4. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Monkey, Mouse, Rat, Elephant, Panda, Bovine, Dog, Horse, Rabbit, Pig (100%), Opossum (84%). Type of Immunogen: Synthetic peptide
Specificity:	Human GRM4 / MGLUR4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Monkey, Mouse, Rat, Elephant, Panda, Bovine, Dog, Horse, Rabbit, Pig (100%) Opossum (84%).
Purification:	Immunoaffinity purified

Target Details

Target:	Metabotropic Glutamate Receptor 4 (GRM4)
Alternative Name:	GRM4 / MGLUR4 (GRM4 Products)
Background:	Name/Gene ID: GRM4 Subfamily: Metabotropic glutamate Family: GPCR Synonyms: GRM4, GPRC1D, MGlu4, MGLUR4
Gene ID:	2914

Application Details

Application Notes:	Approved: IHC, IHC-P (10 µg/mL)
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.

Application Details

	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

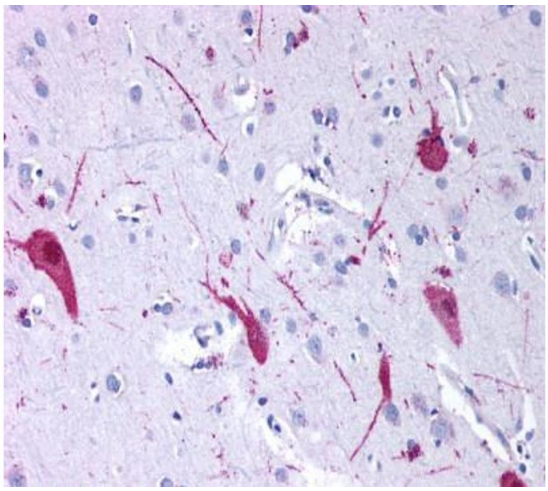
Handling

Format:	Liquid
Concentration:	Lot specific
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

Handling

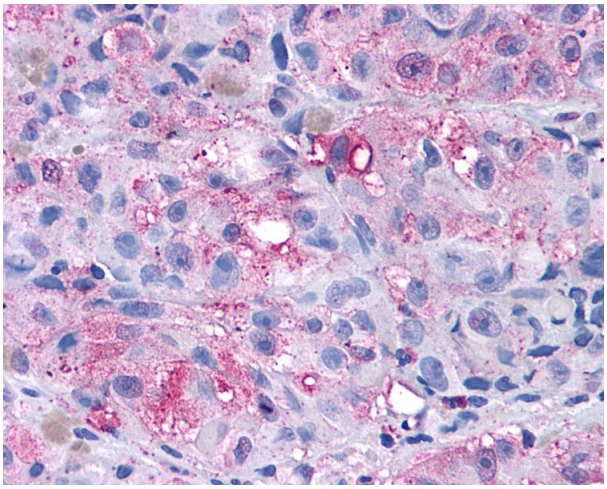
	up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Anti-GRM4 / MGLUR4 antibody ABIN1048936 IHC staining of human brain, neurons and glia. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-GRM4 / MGLUR4 antibody IHC of human Skin, Melanoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.