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Datasheet for ABIN1049070 anti-MRGPRD antibody (Cytoplasmic Domain)

2 Images



Overview

Quantity:	50 µg
Target:	MRGPRD
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 18 amino acid peptide from 3rd cytoplasmic domain of human MRGPRD. Percent identity with other species by BLAST analysis: Human, Gorilla, Monkey (100%), Gibbon (89%), Marmoset (83%).
	Type of Immunogen: Synthetic peptide
Specificity:	Human MRGPRD. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Monkey (100%) Gibbon (89%) Marmoset (83%).
Purification:	Immunoaffinity purified

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Target Details

Target:	MRGPRD
Alternative Name:	MRGD / MRGPRD (MRGPRD Products)
Background:	Name/Gene ID: MRGPRD
	Subfamily: Orphan-A
	Family: GPCR
	Synonyms: MRGPRD, Beta-alanine receptor, MRGD, MAS-related GPR, member D, TGR7
Gene ID:	116512
Application Details	
Application Notes:	Approved: IHC, IHC-P (17 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.

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	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

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Handling

up to 1 month. Avoid freeze-thaw cycles.

Expiry Date:

12 months

Images

Immunohistochemistry

Image 2. Anti-MRGD / MRGPRD antibody IHC of human Brain, Glioblastoma. Immunohistochemistry of formalinfixed, paraffin-embedded tissue after heat-induced antigen retrieval.

Immunohistochemistry

Image 1. Anti-MRGPRD antibody ABIN1049070 IHC staining of human brain, medulla. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.