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anti-Mu Opioid Receptor 1 antibody (C-Term)





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Quantity:	50 μg	
Target:	Mu Opioid Receptor 1 (OPRM1)	
Binding Specificity:	C-Term	
Reactivity:	Human, Monkey, Cow, Pig, Dog, Bat, Hamster	
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 C-terminus of human OPRM1 / Mu Opioid Receptor.	
	Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Gibbon,	
	Monkey, Marmoset, Dog, Bat, Bovine, Hamster, Elephant, Panda, Pig (100%), Mouse, Horse,	
	Rabbit, Opossum, Platypus (94%), Rat (89%).	
	Type of Immunogen: Synthetic peptide	
Specificity:	Human OPRM1 / Mu Opioid Receptor. 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, Gibbon,	
	Monkey, Marmoset, Dog, Bat, Bovine, Hamster, Elephant, Panda, Pig (100%) Mouse, Horse,	
	Rabbit, Opossum, Platypus (94%) Rat (89%).	

Product Details Purification: Immunoaffinity purified Target Details Target: Mu Opioid Receptor 1 (OPRM1) Alternative Name OPRM1 / mu Opioid Receptor (OPRM1 Products) Background: Name/Gene ID: OPRM1 Subfamily: Opioid Family: GPCR Synonyms: OPRM1, M-OR-1, LMOR, MOR, Mu-type opioid receptor, HMOP, Opioid mu receptor, MOP, MOR-1, MOR1, Mu opioid receptor, Opioid receptor, mu 1, KIAA0403, MOR-1C, Mu opiate receptor, Mu opioid receptor hMOR-1a, Opioid mu-type receptor, OPRM Gene ID: 4988 Pathways: cAMP Metabolic Process, Synaptic Membrane **Application Details** Approved: IHC, IHC-P (4 - 22 µg/mL) **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

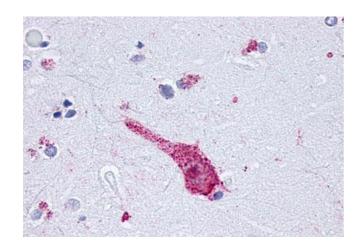
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.

Handling

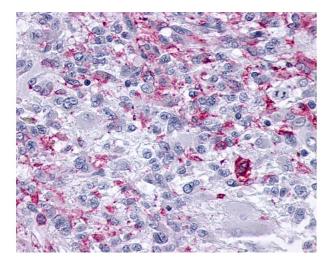
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C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

Images



Immunohistochemistry

Image 1. Anti-OPRM1 / Mu Opioid Receptor antibody ABIN1049171 IHC staining of human brain, neuron. Immunohistochemistry of formalin-fixed, paraffinembedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-OPRM1 / Mu Opioid Receptor antibody IHC of human Brain, Glioblastoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.