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# anti-G Protein-Coupled Receptor 1 antibody (C-Term)





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Purification:

Quantity:	50 μg	
Target:	G Protein-Coupled Receptor 1 (GPR1)	
Binding Specificity:	C-Term	
Reactivity:	Human, Monkey, Dog	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This G Protein-Coupled Receptor 1 antibody is un-conjugated	
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	
Product Details		
Brand:	IHC-plus <sup>™</sup>	
Immunogen:	Synthetic 16 amino acid peptide from C-terminus of human GPR1. Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey, Marmoset, Dog (100%), Gorilla, Pig (94%), Elephant, Panda, Bovine, Platypus (88%), Opossum (81%).	
	Type of Immunogen: Synthetic peptide	
Specificity:	Human GPR1. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except PDE3B (50 %).	
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey, Marmoset, Dog (100%) Gorilla, Pig (94%) Elephant, Panda, Bovine, Platypus (88%) Opossum (81%).	

Immunoaffinity purified

# Target Details

G Protein-Coupled Receptor 1 (GPR1)		
GPR1 (GPR1 Products)		
Name/Gene ID: GPR1		
Subfamily: Orphan-A		
Family: GPCR		
Synonyms: GPR1, G-protein coupled receptor 1, G protein-coupled receptor 1, Gpr-1		
2825		
Steroid Hormone Mediated Signaling Pathway, Regulation of Carbohydrate Metabolic Process		
Approved: IHC, IHC-P (9 - 22 μg/mL)		
Not recommended for: ICC		
Target Species of Antibody: Human		
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

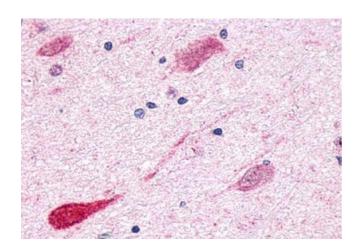
# Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

# Handling

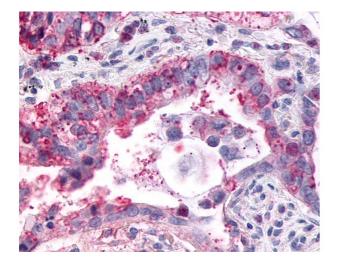
	should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.	
Expiry Date:	12 months	

# **Images**



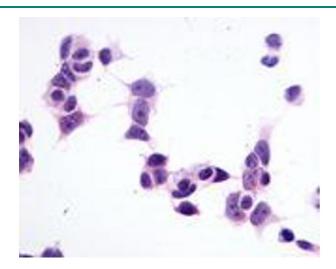
## **Immunohistochemistry**

**Image 1.** Anti-GPR1 antibody ABIN1048683 IHC staining of human brain, neurons and glia. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### **Immunohistochemistry**

**Image 2.** Anti-GPR1 antibody IHC of human Lung, Adenocarcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



## **Immunocytochemistry**

**Image 3.** Anti-GPR1 antibody immunocytochemistry (ICC) staining of untransfected HEK293 human embryonic kidney cells.