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# anti-NPSR1 antibody (Extracellular Domain)

50 μg



**Images** 



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Quantity:

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Target:	NPSR1
Binding Specificity:	Extracellular Domain
Reactivity:	Human, Mouse, Rat, Hamster, 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 2nd extracellular domain of human NPSR1. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster (100%), Elephant, Panda, Bovine, Bat, Pig, Turkey, Chicken (94%), Dog, Opossum, Lizard (89%), Horse, Platypus (83%).
	Type of Immunogen: Synthetic peptide
Specificity:	Human NPSR1. 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, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster (100%) Elephant, Panda, Bovine, Bat, Pig, Turkey, Chicken (94%) Dog, Opossum, Lizard (89%) Horse, Platypus (83%).

Product Details		
Purification:	Immunoaffinity purified	
Target Details		
Target:	NPSR1	
Alternative Name:	NPSR1 / NPSR / GPR154 (NPSR1 Products)	
Background:	Name/Gene ID: NPSR1	
	Subfamily: Vasopressin/oxytocin	
	Family: GPCR	
	Synonyms: NPSR1, ASRT2, G protein-coupled receptor 154, G-protein coupled receptor 154,	
	GPR154, Neuropeptide S receptor 1, NPSR, PGR14, GPRA, Neuropeptide S receptor, VRR1	
Gene ID:	387129	
Application Details		
Application Notes:	Approved: IHC, IHC-P (5 μg/mL)	
	Usage: Proteinase K treatment is required for antigen retrieval.	
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

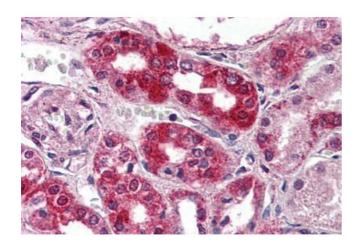
### Handling

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

# Handling

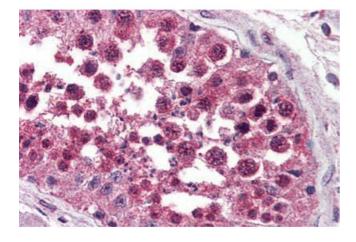
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for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

# **Images**



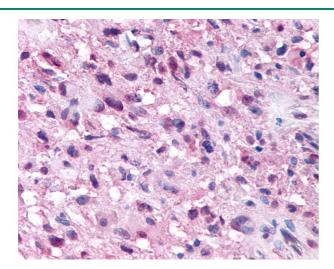
# **Immunohistochemistry**

**Image 1.** Anti-NPSR1 antibody ABIN1049119 IHC staining of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



# **Immunohistochemistry**

**Image 2.** Anti-NPSR1 antibody ABIN1049119 IHC staining of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



# **Immunohistochemistry**

**Image 3.** Anti-NPSR1 / NPSR / GPR154 antibody IHC of human Brain, Glioblastoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.