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Datasheet for ABIN1049110

anti-NPBWR1 antibody (Extracellular Domain)

2 Images

1 Publication

Overview

Quantity:	50 µg
Target:	NPBWR1
Binding Specificity:	Extracellular Domain
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (IHC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 19 amino acid peptide from 2nd extracellular domain of human NPBWR1. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Elephant, Panda (100%), Marmoset, Mouse, Rat, Bovine, Horse (95%), Rabbit (84%). Type of Immunogen: Synthetic peptide
Specificity:	Human NPBWR1. 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, Elephant, Panda (100%) Marmoset, Mouse, Rat, Bovine, Horse (95%) Rabbit (84%).
Purification:	Immunoaffinity purified

Target Details

Target: NPBWR1

Alternative Name: NPBWR1 / GPR7 ([NPBWR1 Products](#))

Background: Name/Gene ID: NPBWR1
Subfamily: Neuropeptide
Family: GPCR

Synonyms: NPBWR1, G protein-coupled receptor 7, GPR7, Neuropeptide B/W receptor 1, Neuropeptides B/W receptor 1, G-protein coupled receptor 7

Gene ID: 2831

Application Details

Application Notes: Approved: IHC, IHC-Fr, IHC-P (6 - 12 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.

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

Handling

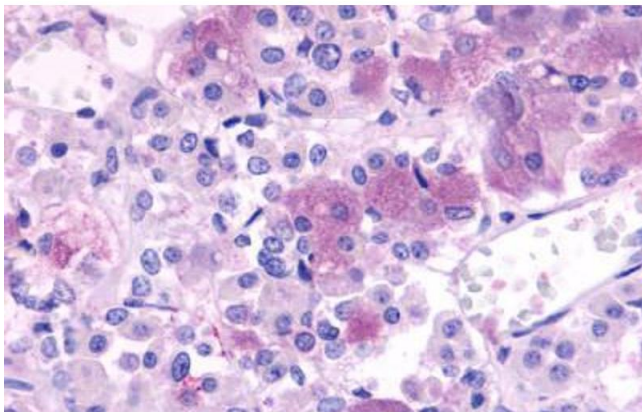
Storage Comment: Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.

Expiry Date: 12 months

Publications

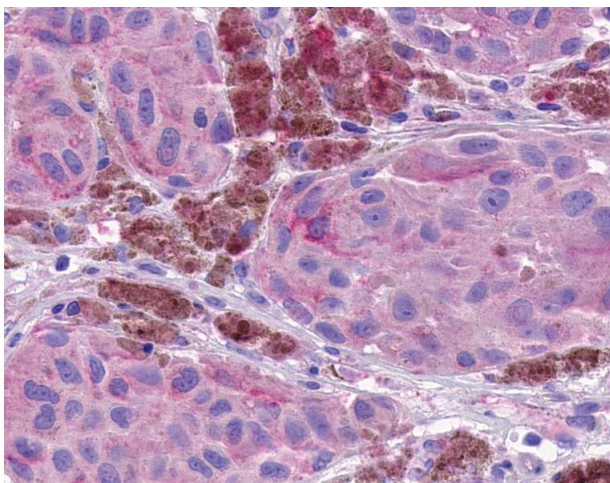
Product cited in: Singh, Maguire, Kuc, Fidock, Davenport: "Identification and cellular localisation of NPW1 (GPR7) receptors for the novel neuropeptide W-23 by [125I]-NPW radioligand binding and immunocytochemistry." in: **Brain research**, Vol. 1017, Issue 1-2, pp. 222-6, (2004) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Anti-NPBWR1 antibody ABIN1049110 IHC staining of human brain, pituitary. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-NPBWR1 / GPR7 antibody IHC of human Skin, Melanoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.