

Datasheet for ABIN1048988
anti-KCNMA1 antibody (Internal Region)



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2 Images

Overview

Quantity:	50 µg
Target:	KCNMA1
Binding Specificity:	Internal Region
Reactivity:	Human, Rat, Mouse, Cow, Zebrafish (Danio rerio), Rabbit, Dog, Chicken, Xenopus laevis, Monkey, Pig, Hamster
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNMA1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 15 amino acid peptide from internal region of human KCNMA1. Percent identity with other species by BLAST analysis: Human, Monkey, Mouse, Rat, Hamster, Bovine, Dog, Rabbit, Pig, Turkey, Chicken, Xenopus, Seabass, Stickleback, Pufferfish, Zebrafish (100%). Type of Immunogen: Synthetic peptide
Specificity:	Human KCNMA1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Monkey, Mouse, Rat, Hamster, Bovine, Dog, Rabbit, Pig, Turkey, Chicken, Xenopus, Seabass, Stickleback, Pufferfish, Zebrafish

Product Details

(100%).

Purification: Immunoaffinity purified

Target Details

Target: KCNMA1

Alternative Name: KCNMA1 / BK ([KCNMA1 Products](#))

Background: Name/Gene ID: KCNMA1
Subfamily: Potassium channel - calcium-activated
Family: Ion Channel

Synonyms: KCNMA1, BA205K10.1, BKCA alpha subunit, BK channel, BKCA alpha, BKTm, HSlo, K(VCA)alpha, KCa1.1, Maxi-K channel HSLO, MaxiK, KCNMA, SAKCA, SLO-ALPHA, Slowpoke homolog, Stretch-activated Kca channel, Slo homolog, BK channel alpha subunit, Maxi K channel, MSlo, MSLO1, SLO, SLO1

Gene ID: 3778

Pathways: [Regulation of Hormone Metabolic Process](#), [Sensory Perception of Sound](#)

Application Details

Application Notes: Approved: IHC, IHC-P (2.5 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

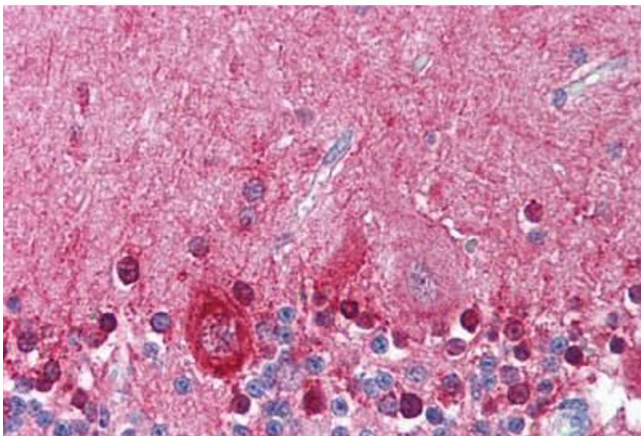
Handling

Format: Liquid

Handling

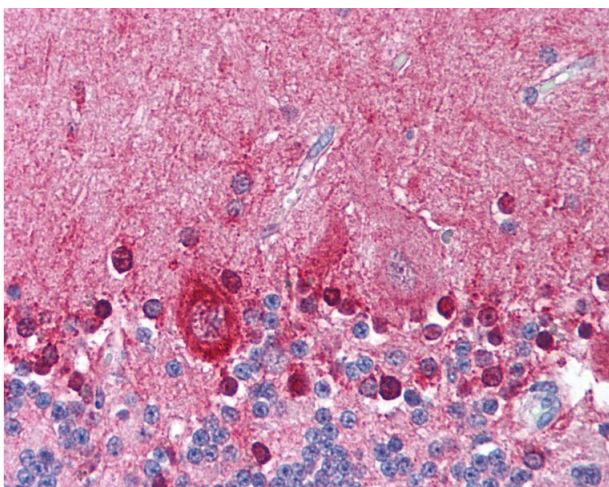
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Anti-KCNMA1 antibody ABIN1048988 IHC staining of human brain, cerebellum. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-KCNMA1 antibody IHC of human brain, cerebellum. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.