

Datasheet for ABIN1048377
anti-CALCRL antibody (Cytoplasmic Domain)



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Overview

Quantity:	50 µg
Target:	CALCRL
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human, Rat, Cow, Dog, Horse, Rabbit, Goat, Monkey, Hamster, Pig, Xenopus laevis
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CALCRL antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from 3rd cytoplasmic domain of human CALCRL. Percent identity with other species by BLAST analysis: Human, Gorilla, Orangutan, Gibbon, Monkey, Marmoset, Rat, Goat, Hamster, Panda, Dog, Bovine, Horse, Rabbit, Pig, Opossum, Xenopus (100%), Mouse, Elephant, Bat, Guinea pig, Stickleback, Pufferfish, Zebrafish (94%), Turkey, Chicken (81%). Type of Immunogen: Synthetic peptide
Specificity:	Human CALCRL. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except CALCR (56 %).
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Orangutan, Gibbon,

Product Details

Monkey, Marmoset, Rat, Goat, Hamster, Panda, Dog, Bovine, Horse, Rabbit, Pig, Opossum, Xenopus (100%) Mouse, Elephant, Bat, Guinea pig, Stickleback, Pufferfish, Zebrafish (94%) Turkey, Chicken (81%).

Purification: Immunoaffinity purified

Target Details

Target: CALCRL

Alternative Name: CALCRL / CGRP Receptor ([CALCRL Products](#))

Background: Name/Gene ID: CALCRL
Subfamily: Adrenomedullin
Family: GPCR

Synonyms: CALCRL, CGRP type 1 receptor, Cgrp1 receptor, CRLR, Calcitonin receptor-like, CGRP receptor, CGRPR

Gene ID: 10203

Pathways: [cAMP Metabolic Process](#)

Application Details

Application Notes: Approved: IHC, IHC-P (34 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

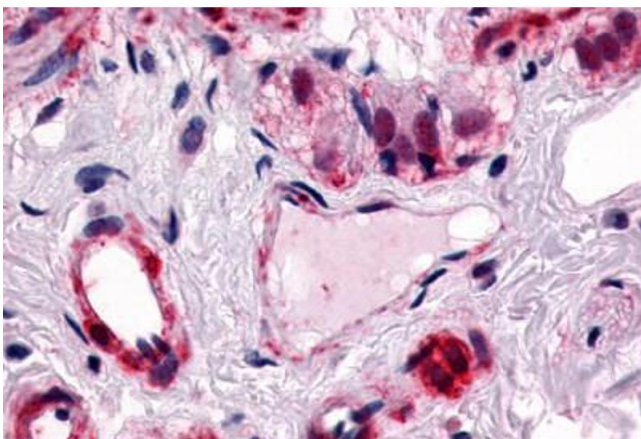
Handling

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

Publications

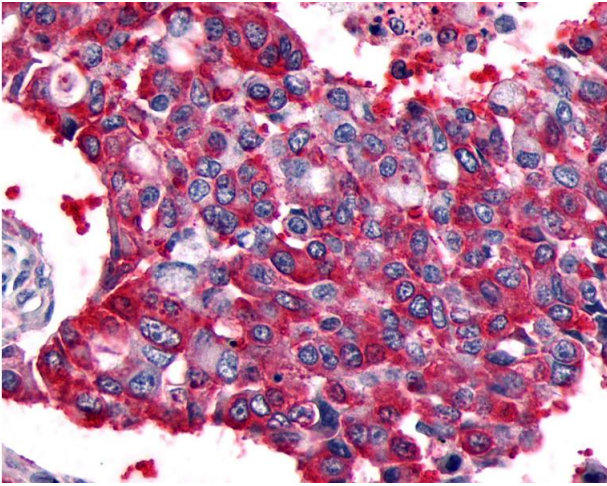
Product cited in:	Zheng, Nixdorf-Bergweiler, van Brederode, Alzheimer, Messlinger: "Excitatory Effects of Calcitonin Gene-Related Peptide (CGRP) on Superficial Sp5C Neurons in Mouse Medullary Slices." in: International journal of molecular sciences , Vol. 22, Issue 7, (2021) (PubMed).
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Images



Immunohistochemistry

Image 1. Anti-CALCRL antibody ABIN1048377 IHC staining of human colon, submucosal plexus and submucosal vessels. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-CALCRL / CGRP Receptor antibody IHC of human Lung, Non-Small Cell Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.