

Anti-Calretinin Picoband Antibody
Catalog # ABO11939

Specification

Anti-Calretinin Picoband Antibody - Product Information

Application	WB, IHC
Primary Accession	P22676
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Calretinin(CALB2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Calretinin Picoband Antibody - Additional Information

Gene ID 794

Other Names

Calretinin, CR, 29 kDa calbindin, CALB2, CAB29

Calculated MW

31540 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human

Tissue Specificity

Brain.

Protein Name

Calretinin

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃N.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human Calretinin(234-262aa EMNIQQLTNYRKSVM_{SLAEAGKLYR}KDLE), different from the related mouse and rat sequences by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the calbindin family.

Anti-Calretinin Picoband Antibody - Protein Information

Name CALB2

Synonyms CAB29

Function

Calretinin is a calcium-binding protein which is abundant in auditory neurons.

Tissue Location

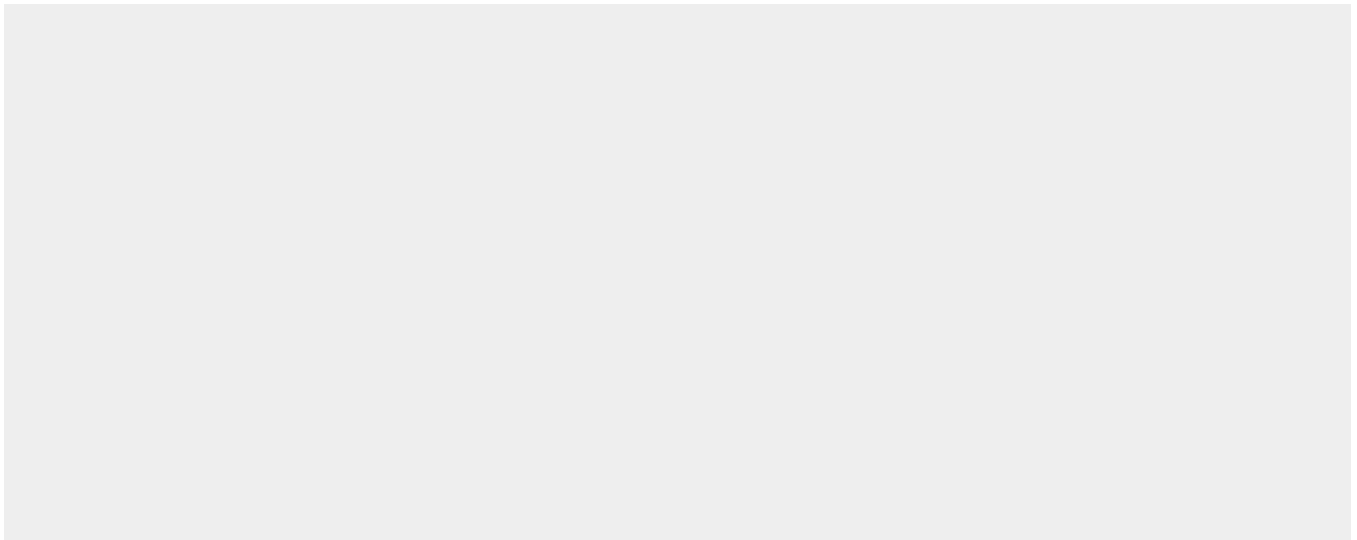
Brain.

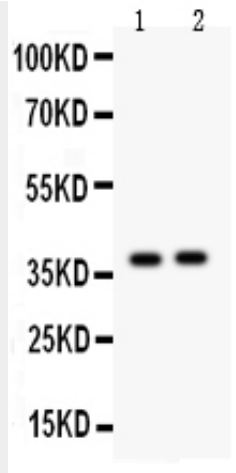
Anti-Calretinin Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

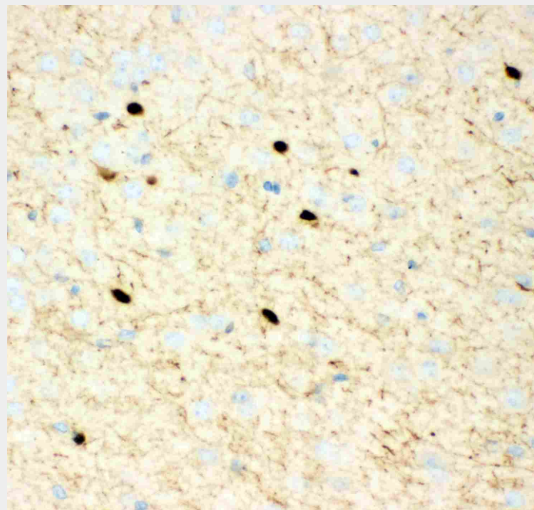
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Calretinin Picoband Antibody - Images

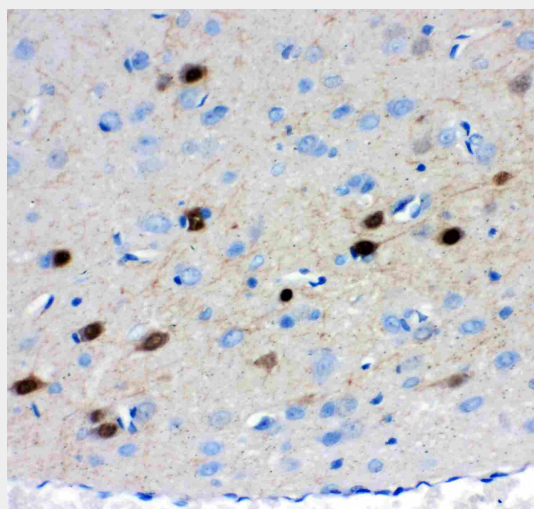




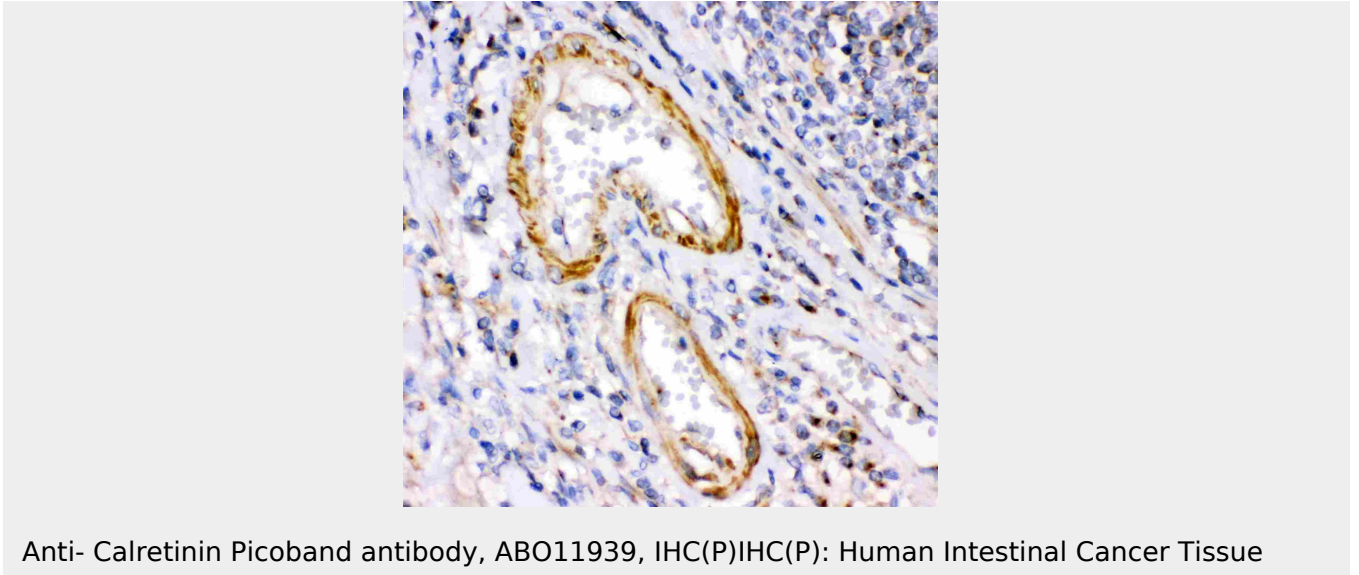
Anti- Calretinin Picoband antibody, ABO11939, Western blottingAll lanes: Anti Calretinin (ABO11939) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugPredicted bind size: 31KDObserved bind size: 38KD



Anti- Calretinin Picoband antibody, ABO11939, IHC(P)IHC(P): Mouse Brain Tissue



Anti- Calretinin Picoband antibody, ABO11939, IHC(P)IHC(P): Rat Brain Tissue



Anti-Calretinin Picoband Antibody - Background

Calretinin, also known as 29 kDa calbindin, is a vitamin D-dependent calcium-binding protein involved in calcium signaling. In humans, the calretinin protein is encoded by the CALB2 gene. This gene encodes an intracellular calcium-binding protein belonging to the troponin C superfamily. Members of this protein family have six EF-hand domains which bind calcium. Calretinin is mapped to 16q22.2. This protein plays a role in diverse cellular functions, including message targeting and intracellular calcium buffering. It also functions as a modulator of neuronal excitability and is a diagnostic marker for some human diseases, including Hirschsprung disease and some cancers.