

**Anti-Calretinin Picoband Antibody**  
Catalog # ABO11939**Specification****Anti-Calretinin Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P22676</a>
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<br>Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human<br>

**Tissue Specificity**

Brain.

**Protein Name**

Calretinin

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminal of human Calretinin(234-262aa EMNIQQLTNYRKSVM<sub>SLAEAGKLYR</sub>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

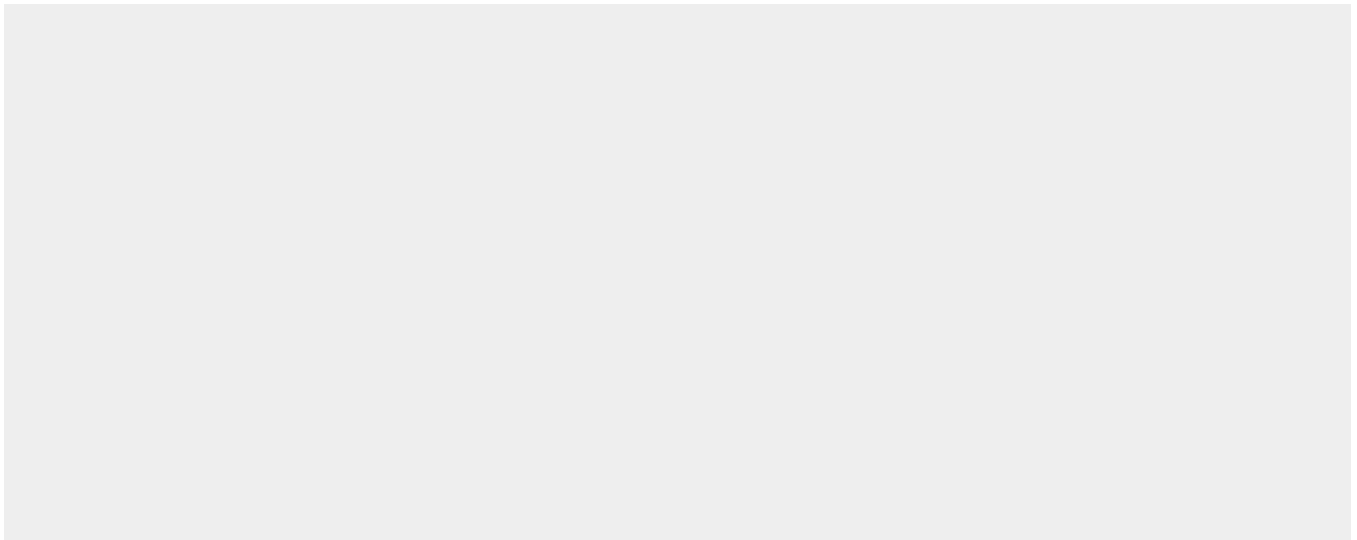
Brain.

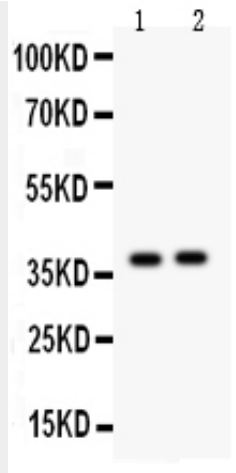
## Anti-Calretinin Picoband Antibody - Protocols

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

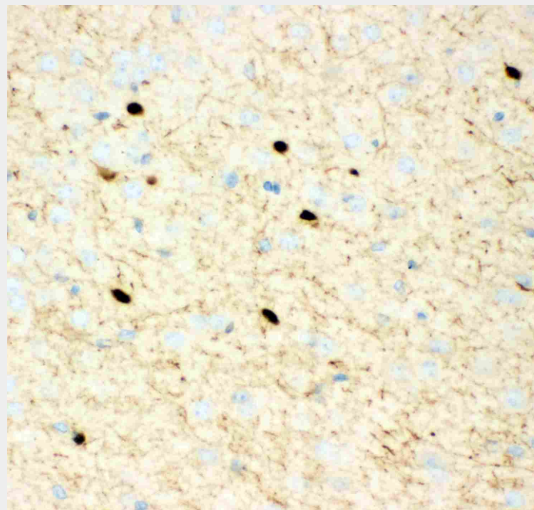
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Calretinin Picoband Antibody - Images

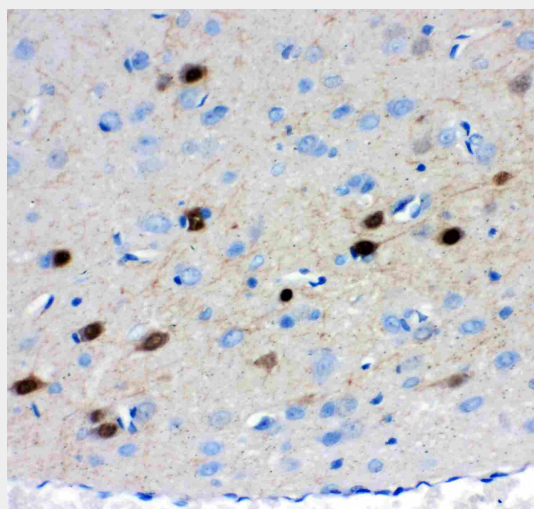




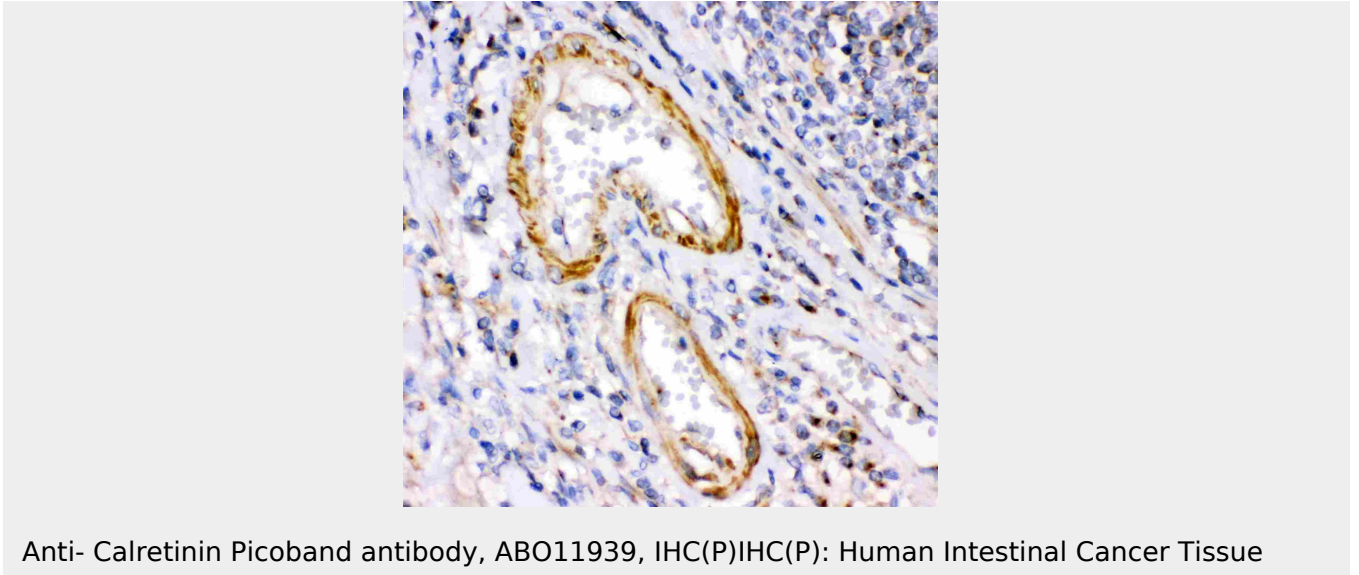
Anti- Calretinin Picoband antibody, ABO11939, Western blottingAll lanes: Anti Calretinin (ABO11939) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugPredicted bind size: 31KDObserved bind size: 38KD



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.