

Datasheet for ABIN7602106
anti-Calretinin antibody (AA 59-90)



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Overview

Quantity:	100 µg
Target:	Calretinin (CALB2)
Binding Specificity:	AA 59-90
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calretinin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Calretinin/CALB2 Antibody Picoband®
Immunogen:	E.coli-derived human Calretinin/CALB2 recombinant protein (Position: S59-Q90).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Calretinin/CALB2 Antibody Picoband® (ABIN7602106). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Calretinin (CALB2)
Alternative Name:	CALB2 (CALB2 Products)
Background:	Synonyms: Calretinin, CR, 29 kDa calbindin, CALB2, CAB29 Tissue Specificity: Brain. Background: Calretinin, also known as calbindin 2 (formerly 29 kDa calbindin), is a calcium-binding protein involved in calcium signaling. In humans, the calretinin protein is encoded by the CALB2 gene. It is mapped to 16q22.2. 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. 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. Alternative splicing results in multiple transcript variants.
Molecular Weight:	32 kDa
Gene ID:	794
UniProt:	P22676

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human, Rat ELISA, 0.1-0.5 µg/mL, - 1. Chen, L. Z., Harris, P. C., Apostolou, S., Baker, E., Holman, K., Lane, S. A., Nancarrow, J. K., Whitmore, S. A., Stallings, R. L., Hildebrand, C. E., Richards, R. I., Sutherland, G. R., Callen, D. F. A refined physical map of the long arm of human chromosome 16. <i>Genomics</i> 10: 308-312, 1991. 2. De Marco Garcia, N. V., Karayannis, T., Fishell, G. Neuronal activity is required for the development of specific cortical interneuron subtypes. <i>Nature</i> 472: 351-355, 2011. 3. Parmentier, M., Passage, E., Vassart, G., Mattei, M.-G. The human calbindin D28k (CALB1) and calretinin (CALB2) genes are located at 8q21.3-q22.1 and 16q22-q23, respectively, suggesting a common duplication with the carbonic anhydrase isozyme loci. <i>Cytogenet. Cell Genet.</i> 57: 41-43, 1991.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
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:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.