



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit Anti-Human Calretinin Antibody

Catalog No: 130-10089	Isotype: Rabbit IgG	Species: Human	Accession No: P22676
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Description

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. 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.

Applications

Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1 : 640,000
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was recombinant protein from human Calretinin. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum followed by Protein A/G affinity chromatography.

Specificity

The antibody can specifically bind to human Calretinin. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with mouse or rat Calretinin was not tested.

Reconstitution

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1x PBS to a final concentration of 1 mg/ml.

Storage

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for at least 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Related products

1. Sheep Anti-Guinea Pig Calretinin (cat# 129-10333)
2. Recombinant Mouse Calretinin (cat#228-10161-3)

Reference

1. Parmentier M, et al (1991). "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". *Cytogenet. Cell Genet.* 57 (1): 41–3.
2. Poblet E, et al. (2005). "The calcium-binding protein calretinin is a marker of the companion cell layer of the human hair follicle". *Br. J. Dermatol.* 152 (6): 1316–20.

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