

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human C2CD3 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human C2CD3 Met1-Asp109 Accession # Q4AC94
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

C2CD3 (C2 domain-containing protein 3) is a 260 kDa (predicted) intracellular protein that apparently belongs to no known structural protein family. It is ubiquitously expressed, and plays a role in cilia formation and associated hedgehog signaling. In particular, C2CD3 is localized to the basal body, and appears to promote Gli3 proteolytic processing into a truncated transcriptional repressor. Human C2CD3 is 2353 amino acids (aa) in length. It contains two C2 domains (aa 1163-1289 and 1622-1728) that participate in Ca⁺⁺-dependent protein-lipid and protein-protein interactions. Three utilized phosphorylation sites exist at Thr1130, Ser2114 and Ser 2132. There are multiple potential splice variants. One possesses a three aa substitution for aa 1961-2353, a second shows a deletion of aa 1364-1382 coupled to a 27 aa substitution for aa 1881-2353, a third contains a seven aa substitution for aa 1961-2353, and a fourth contains a 34 aa substitution for aa 1888-2353. Over aa 1-109, human C2CD3 shares 94% aa identity with mouse C2CD3.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.