

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 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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