Human CIDEC Alexa Fluor® 750-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6960S
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CIDEC in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human CIDEA is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CIDEC Met75-His176 Accession # Q96AQ7
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
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

CIDE-3 (Cell death-Inducing DNA fragmentation factor-α-like Effector protein 3; also CIDEC and FSP27 in mouse) is a 24-32 kDa member of the CIDE family of molecules. It is a lipid droplet stabilizer that is expressed in hepatocytes and adipocytes, and found to be associated with both mitochondria and the surface of cytoplasmic lipid droplets. CIDE-3 is unstable in the absence of triglycerides and free fatty acids, and is subject to ubiquitin-mediated degradation. In the presence of elevated fatty acids or triglycerides, CIDE-3 half-life is prolonged, and it assists in the formation of lipid droplets. Although other CIDE family members are associated with the initiation of apoptosis, it is unclear if CIDE-3 possesses such activity. Human CIDE-3 is 238 amino acids (aa) in length, and contains one CIDE domain (aa 41-120). There are multiple isoform variants. Two possesses alternative start sites, one at Met74, and another 14 aa upstream of the standard site. A third isoform shows an insertion of ten aa after Lys69, while a fourth isoform possesses a 60 aa substitution for aa 70-238. Over aa 75-176, human CIDE-3 shares 84% aa identity with mouse CIDE-3.

PRODUCT SPECIFIC NOTICES

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