

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ICAT in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 536017
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human ICAT Met1-Gln81 Accession # Q9NSA3
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

Immunohistochemistry 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

Human ICAT is a physiological inhibitor of the β -Catenin/Wnt signaling pathway. It is 9 kDa in size and found in both cytosol and nucleus. The molecule contains an α -helical N-terminal region (aa 9-54) and an acidic, extended C-terminal region (aa 55-78). The α -helical region binds to β -Catenin, displacing CBP/p300, while the acidic C-terminus interacts with the β -Catenin N-terminus, blocking Tcf interaction. Human ICAT shares 97% aa sequence identity with mouse and bovine ICAT, respectively.

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