

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

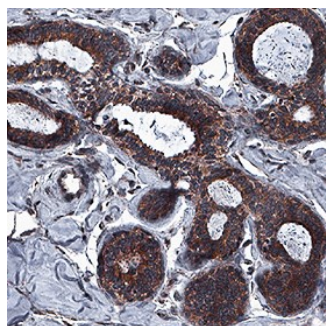
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunohistochemistry	5-25 µg/mL	See Below

DATA

Immunohistochemistry



ICAT in Human Fibrocystic Breast Tissue.

ICAT was detected in immersion fixed paraffin-embedded sections of human fibrocystic breast tissue using Mouse Anti-Human ICAT Monoclonal Antibody (Catalog # MAB3016) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.