

DESCRIPTION

| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human ICAT in direct ELISAs and Western blots. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| 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 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 |
|---------------------|----------------------------------|------------------------|
| Western Blot | 0.1 µg/mL | Recombinant Human ICAT |

PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Reconstitute at 0.2 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.