

DESCRIPTION

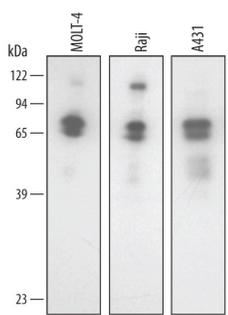
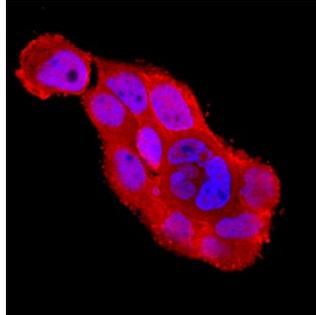
Species Reactivity	Human
Specificity	Detects human SODD/BAG4 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SODD/BAG4 Glu122-Leu457 Accession # O95429
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS 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	0.5 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human SODD/BAG4 by Western Blot. Western blot shows lysates of MOLT-4 human acute lymphoblastic leukemia cell line, Raji human Burkitt's lymphoma cell line, and A431 human epithelial carcinoma cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human SODD/BAG4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4350) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). Specific bands were detected for SODD/BAG4 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using <i>Immunoblot Buffer Group 2</i>.</p>	<p>Immunocytochemistry</p>  <p>SODD/BAG4 in A431 Human Cell Line. SODD/BAG4 was detected in immersion fixed A431 human epithelial carcinoma cell line using Goat Anti-Human SODD/BAG4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4350) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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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

Tumor necrosis factor receptor-1 (TNF-R1) and other TNF receptor superfamily members, such as DR3, contain intracellular death domains (DD) and are capable of initiating apoptosis when activated by their ligands. Silencer of Death Domains (SODD) was identified as being involved in the cellular mechanism to protect against ligand-independent signaling by TNF-R1 and other DD receptors. SODD, also known as Bcl-2-Associated Athanogene 4 (BAG4), is a 457 amino acid (aa), anti-apoptotic protein that functions through interactions with a variety of proteins including Bcl-2, Raf-protein kinase, steroid hormone receptors, growth factor receptors, and members of the heat shock protein 70 kDa family. SODD is a ubiquitously expressed, cytoplasmic protein that contains a C-terminal BAG domain that can bind and inhibit the chaperone activity of Hsc70/Hsp70. The association of SODD with the DD of TNF-R1 prevents constitutive activation of the TNF-R1 signaling pathway. Binding of TNF to TNF-R1 releases SODD and permits adapter molecules such as TRADD to associate with TNF-R1 leading to the activation of TNF signaling pathways such as apoptosis and NFκB activation.