

DESCRIPTION

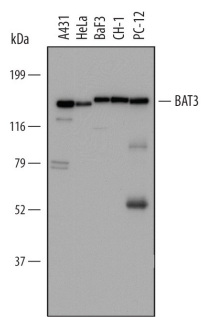
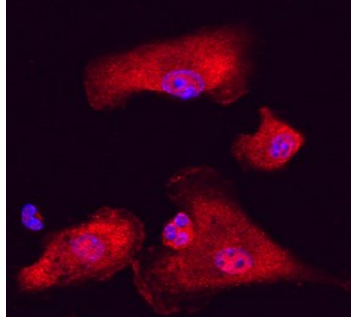
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat BAT3/BAG6 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BAT3/BAG6 Met1-Gln190 Accession # P46379
Formulation	Lyophilized from a 0.2 µm 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	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human, Mouse, and Rat BAT3/BAG6 by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, HeLa human cervical epithelial carcinoma cell line, BaF3 mouse pro-B cell line, CH-1 mouse B cell lymphoma cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF Membrane was probed with 1 µg/mL of Sheep Anti-Human/Mouse/Rat BAT3/BAG6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6438) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for BAT3/BAG6 at approximately 150 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>BAT3/BAG6 in Human Dendritic Cells. BAT3/BAG6 was detected in immersion fixed immature human dendritic cells using Sheep Anti-Human/Mouse/Rat BAT3/BAG6 Affinity-purified Polyclonal Antibody (Catalog # AF6438) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counter-stained with DAPI (blue). Specific staining was localized to nuclei and 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

BAT3 (HLA-B-associated transcript 3; also BAG6, BAG family molecular chaperone regulator 6, Protein G3 and Scythe) is a multifunctional molecule that is not easily placed into known protein families. Although its predicted MW is 119 kDa, it runs anomalously in SDS-PAGE at 150-170 kDa. BAT3 is found in diverse cell types such as dendritic cells, hepatocytes, renal epithelial cells and tumor cells. It is found extracellularly where it is complexed to Hsp70, and activates the NKp30 receptor expressed on NK cells. Intracellularly, it binds to TGF-β receptors I and II where, upon receptor ligation, it translocates to the nucleus and activates TGF-β target genes. Human BAT3 is 1132 amino acids (aa) in length. It contains one Ub-like domain (aa 17-77), two Pro-rich regions (aa 195-273 and 394-681), an NLS (aa 1030-1052) plus a BAG domain (aa 1053-1101). BAT3 is phosphorylated on multiple Ser/Thr residues. Caspase 3 will cleave BAT3 after Asp1001, generating a 20 kDa C-terminal fragment. There are also multiple splice variants. Two of them share an absence of aa 185-190 that may be accompanied by a 36 aa insertion after Gly489. Over aa 1-190, human BAT3 shares 93% aa identity with mouse BAT3.