

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
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	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

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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.