Datasheet for ABIN6657746

anti-BAT3 antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	BAT3
Binding Specificity:	C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Immunogen: This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the C-terminal portion of mouse Scythe/BAT3. Immunogen Type: Peptide
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	This product was prepared from monospecific antiserum by addition of Sodium azide to 0.01%. The antibody detects endogenous Scythe/BAT3 in cell lysates.

Target Details

Target:	BAT3
Alternative Name:	Scythe/Bat3 (BAT3 Products)
Background:	Synonyms: rabbit anti-Bat3 Antibody, rabbit anti-Scythe Antibody, Human Leukocyte Antigen-B-

Target Details

	Associated Transcript 3, HLA-B-associated transcript 3, BAT3, Large proline-rich protein BAT3 Background: Scythe protein (also known as BAT3 and HLA-B-associated transcript 3) is an apoptotic regulator that is highly conserved in eukaryotes and contains a ubiquitin-like domain near its N-terminus. It binds Reaper, a potent apoptotic inducer, as well as Hid and Grim. Scythe and Reaper are thought to signal apoptosis, in part through regulating the folding and activity of apoptotic signaling molecules. Scythe regulates apoptosis-inducing factor stability during endoplasmic reticulum stress-induced apoptosis. It interacts with transforming growth factor-beta (TGF-beta) receptors and enhances TGF-beta1-induced type I collagen expression in mesangial cells. With SET1A, Scythe forms a complex with CTCFL/BORIS to modulate H3K4 histone dimethylation and gene expression. Scythe is essential for p300-mediated acetylation of p53. Scythe/BAT3 is identified as a critical regulator of Hsp70-2 in spermatogenesis, thereby providing a possible molecular target in idiopathic male infertility. The human Scythe/BAT3 ortholog in rodents is predominantly and developmentally expressed in testis. Gene Name: BAT3
Gene ID:	224727, 33147082
UniProt:	Q9Z1R2

Application Details

Application Notes:	Application Note: This polyclonal antibody has been tested for use in western blotting and is specific for mouse Scythe/Bat3 and its isoforms. Specific conditions for reactivity should be optimized by the end user. Expect multiple bands, with the predominant at approximately 200 kDa in size corresponding to Scythe/BAT3 by western blotting in the appropriate cell lysate or extract. In western blot analysis of endogenous protein, multiple bands of Scythe/BAT3 may appear corresponding to variable amount of splice isoforms present. ELISA Dilution: User Optimized Western Blot Dilution: 1:5,000 to 1:8000
Restrictions:	For Research Use only

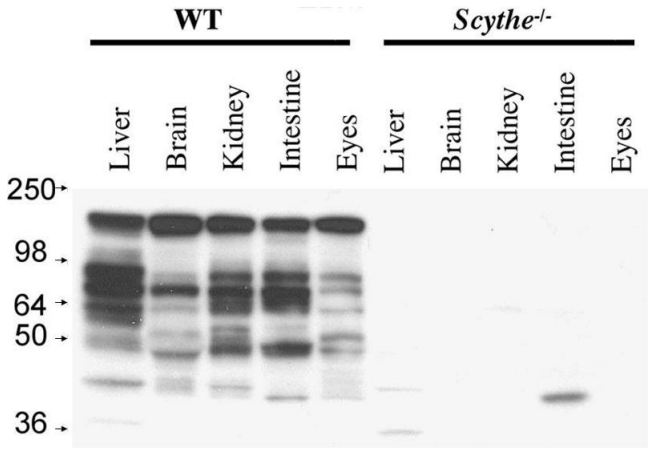
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 0.01 % (w/v) Sodium Azide Stabilizer: None

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Images



Western Blotting

Image 1. Anti-Mouse Scythe/BAT3 Antibody - Western Blot. Western Blot of anti-Mouse Scythe/BAT3 antibody. Showing detection of mouse Scythe/BAT3 by in various tissues of mouse WT (lanes 1-5) and Scythe knockout (-/-) embryos (lanes 6-10).