Datasheet for ABIN6657747

anti-BAT3 antibody (C-Term)

1 Image | 2 Publications

Go to Product page

Overview

Quantity:	25 µL
Target:	BAT3
Binding Specificity:	C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BAT3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Scythe/Bat3 Antibody
Immunogen:	This Bat3 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.
Isotype:	IgG
Purification:	This product was prepared from monospecific antiserum by addition of Sodium azide to 0.01 % .
Sterility:	Sterile filtered

Target Details

Target:	BAT3

Target Details

Alternative Name:	Scythe/Bat3 (BAT3 Products)
Background:	Synonyms: rabbit anti-Bat3 Antibody, rabbit anti-Scythe Antibody, Bat3, HLA-B-associated transcript 3, 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. Scythe binds Reaper, a potent apoptotic inducer. Scythe and Reaper are thought to signal apoptosis, in part through regulating the folding and and activity of apoptotic signaling molecules. Scythe regulates apoptosis-inducing factor stability during endoplasmic reticulum stress-induced apoptosis. Scythe interacts with transforming growth factor-beta (TGF-beta) receptors and enhances TGF-beta1-induced type I collagen expression in mesangial cells. Scythe and SET1A form a complex with CTCFL/BORIS to modulate H3K4 histone dimethylation and gene expression. HLA-B-associated transcript 3 (Bat3/Scythe) is essential for p300-mediated acetylation of p53. 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:	ELISA_Dilution: User Optimized Western_Blot_Dilution: 1:5,000 to 1:8,000
Comment:	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 200kDa 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.
Restrictions:	For Research Use only

Handling

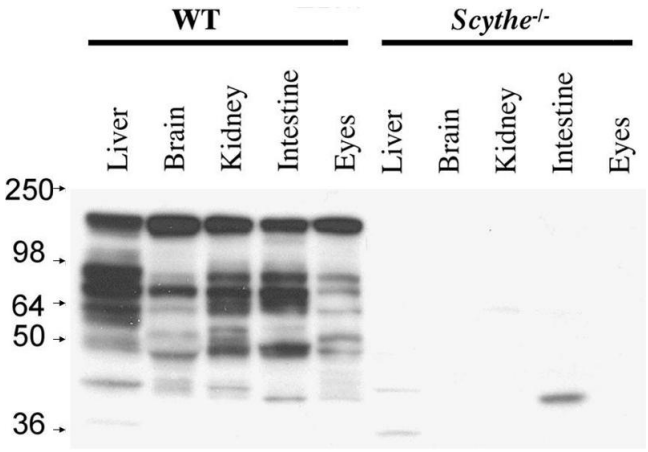
Format:	Liquid

Handling

Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
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:	-20 °C
Storage Comment:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiry Date:	3 months

Publications

Product cited in:	Desmots, Russell, Michel, McKinnon: "Scythe regulates apoptosis-inducing factor stability during endoplasmic reticulum stress-induced apoptosis." in: **The Journal of biological chemistry**, Vol. 283, Issue 6, pp. 3264-71, (2008) (PubMed). Desmots, Russell, Lee, Boyd, McKinnon: "The reaper-binding protein scythe modulates apoptosis and proliferation during mammalian development." in: **Molecular and cellular biology**, Vol. 25, Issue 23, pp. 10329-37, (2005) (PubMed).



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).