abcam

Product datasheet

Anti-FASTK antibody ab97544

2 References 6 Images

Overview

Product name	Anti-FASTK antibody
Description	Rabbit polyclonal to FASTK
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Cow, Dog, Pig
Immunogen	Recombinant protein fragment containing a sequence corresponding to a region within amino acids 396-521 of Human FASTK (NP_006703) Run BLAST with ExPASy Run BLAST with NCBI
Positive control	WB: 293T, A431, H1299, HeLaS3, HepG2, MOLT4, Raji or NIH3T3 cell lysates ICC/IF: HeLa cells
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab97544 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 61 kDa.
ICC/IF		1/100 - 1/200.

Target

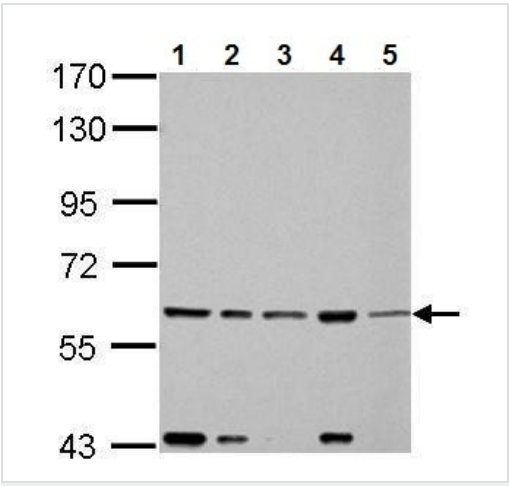
Function Phosphorylates the splicing regulator TIA1, thereby promoting the inclusion of FAS exon 6, which leads to an mRNA encoding a pro-apoptotic form of the receptor.

Tissue specificity Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

Sequence similarities Belongs to the FAST protein kinase family.
Contains 1 RAP domain.

Post-translational modifications Autophosphorylated on serine/threonine residues. Activated by dephosphorylation.

Images



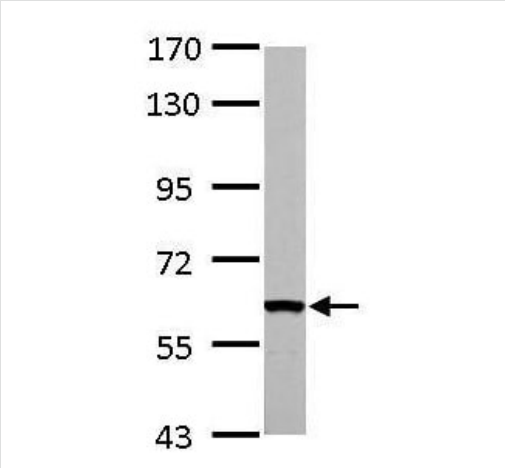
Western blot - Anti-FASTK antibody (ab97544)

All lanes : Anti-FASTK antibody (ab97544) at 1/1000 dilution

Lane 1 : 293T whole cell lysate
Lane 2 : A431 whole cell lysate
Lane 3 : HeLa whole cell lysate
Lane 4 : HepG2 whole cell lysate
Lane 5 : A375 whole cell lysate

Lysates/proteins at 30 µg per lane.

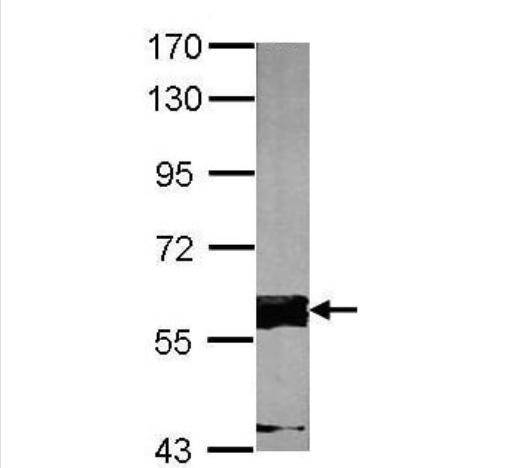
Predicted band size: 61 kDa



Western blot - Anti-FASTK antibody (ab97544)

Anti-FASTK antibody (ab97544) at 1/1000 dilution + PC-12 whole cell lysate at 30 µg

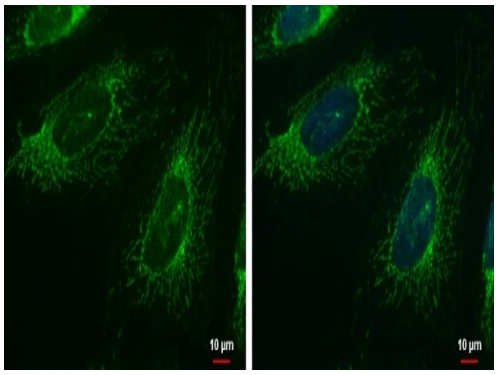
Predicted band size: 61 kDa



Western blot - Anti-FASTK antibody (ab97544)

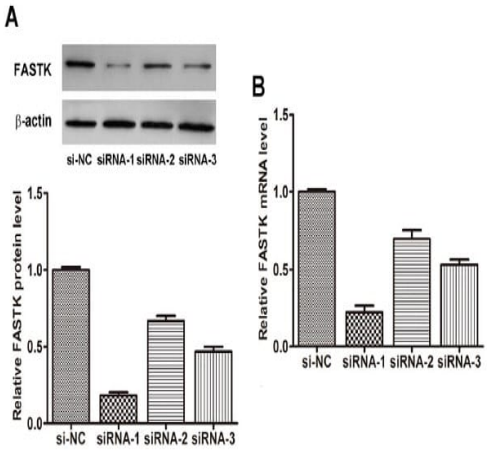
Anti-FASTK antibody (ab97544) at 1/1000 dilution + NIH-3T3 cell lysate at 30 µg

Predicted band size: 61 kDa



Immunocytochemistry/ Immunofluorescence - Anti-FASTK antibody (ab97544)

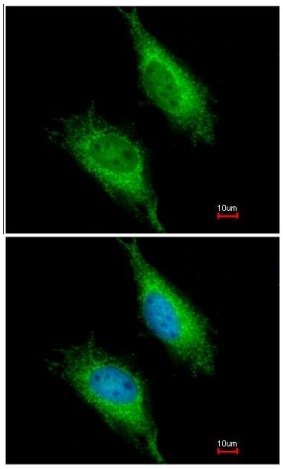
Immunofluorescent staining of FASTK in HeLa cells using ab97544 at a dilution of 1/1000. HeLa cells were fixed in ice-cold methanol for 5 minutes and the cells were counter-stained with Hoechst 33342.



Western blot - Anti-FASTK antibody (ab97544)

Image from Zhi F et al., PLoS One. 2013;8(8):e72390. Fig 3.; doi: 10.1371/journal.pone.0072390 Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

FASTK siRNA interference assay. Three siRNA sequences targeting different sites of human FASTK cDNA and a scrambled control siRNA (si-NC) were transfected into U251 cells using Lipofectamine 2000. Total protein or total RNA was isolated at 48 h or 24 h post-transfection. FASTK protein levels were determined by western blot analysis using ab97544 at a dilution of 1/500 (A). The secondary antibody was a rabbit IgG-HRP and the quantitive data was obtained with the Quantity One analysis program. FASTK mRNA levels were assessed by qRT-PCR (B).



Immunocytochemistry/ Immunofluorescence - Anti-FASTK antibody (ab97544)

Immunofluorescence analysis of FASTK in methanol fixed HeLa, using ab97544 at a 1/200 dilution.
Lower image is co-stained with Hoechst 33342.

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