




Product datasheet

Anti-SDF4 antibody ab113413

3 Images

Overview

Product name	Anti-SDF4 antibody
Description	Goat polyclonal to SDF4
Host species	Goat
Specificity	ab113413 is expected to recognize both reported isoforms (NP_057631.1; NP_057260.2).
Tested applications	Suitable for: Flow Cyt, ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Goat, Cow, Dog 
Immunogen	Synthetic peptide: EYKVKFLASKGHSEK by a Cysteine residue linker, corresponding to internal sequence amino acids 161-175 of Human SDF4 (NP_057631.1; NP_057260.2).  Run BLAST with  Run BLAST with
Positive control	WB: U251, HeLa and Jurkat cell lysate. Flow Cyt: A431 cells ICC/IF: U2OS cells
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	ab113413 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Clonality	Polyclonal
Isotype	IgG

Applications

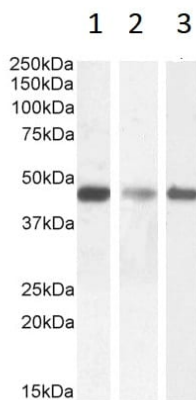
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab113413 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use a concentration of 10 µg/ml.
ICC/IF		Use a concentration of 10 µg/ml.
IHC-P		Use a concentration of 5 - 10 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 0.1 - 0.3 µg/ml. Detects a band of approximately 45 kDa (predicted molecular weight: 42 kDa). 1 hour primary incubation is recommended for this product.

Target

Function	May regulate calcium-dependent activities in the endoplasmic reticulum lumen or post-ER compartment. Isoform 5 may be involved in the exocytosis of zymogens by pancreatic acini.
Tissue specificity	Ubiquitous. Isoform 5 is expressed in pancreas.
Sequence similarities	Belongs to the CREC family. Contains 6 EF-hand domains.
Cellular localization	Golgi apparatus lumen and Cytoplasm. Cell projection > bleb. Isoform 5 colocalizes with STX3 and STXBP1 isoform 2 at the plasma membrane and cell surface blebs.

Images



Western blot - Anti-SDF4 antibody (ab113413)

All lanes : Anti-SDF4 antibody (ab113413) at 0.1 $\mu\text{g/ml}$

Lane 1 : Jurkat cell lysate

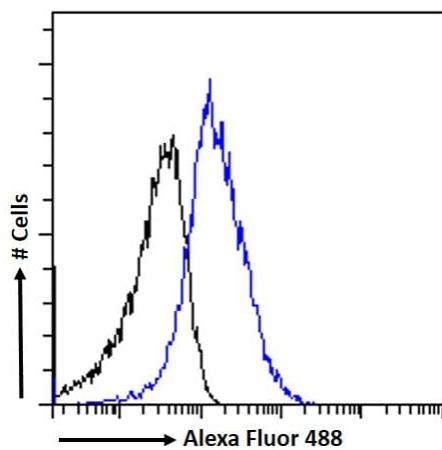
Lane 2 : HeLa cell lysate

Lane 3 : U251 cell lysate

Lysates/proteins at 35 μg per lane.

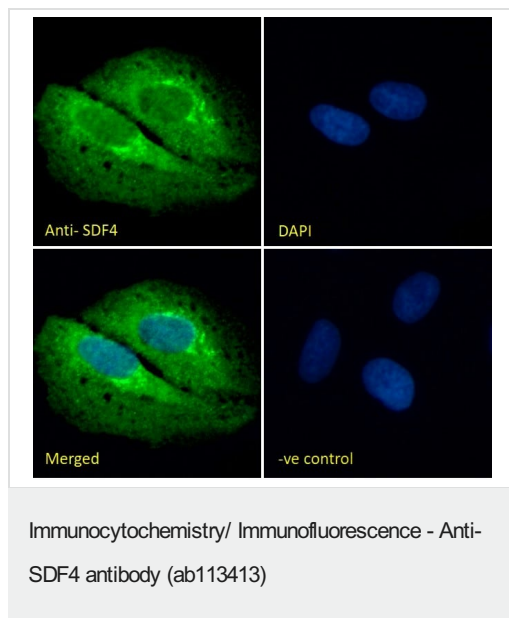
Predicted band size: 42 kDa

Lysates in RIPA buffer. Detected by chemiluminescence.



Flow Cytometry - Anti-SDF4 antibody (ab113413)

Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 $\mu\text{g/mL}$) followed by Alexa Fluor 488 secondary antibody (1 $\mu\text{g/mL}$). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunocytochemistry/Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10µg/mL) followed by Alexa Fluor 488 secondary antibody (2µg/mL), showing Golgi and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10µg/mL) followed by Alexa Fluor 488 secondary antibody (2µg/mL).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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