abcam

Product datasheet

Anti-KAT13A / SRC1 antibody ab5407

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Overview

Product name	Anti-KAT13A / SRC1 antibody
Description	Rabbit polyclonal to KAT13A / SRC1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Chimpanzee, Rhesus monkey, Gorilla, Orangutan
Immunogen	Synthetic peptide corresponding to Human KAT13A/ SRC1 aa 600-650. Database link: **Q15788**
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 and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7 Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab5407 in the following tested applications.

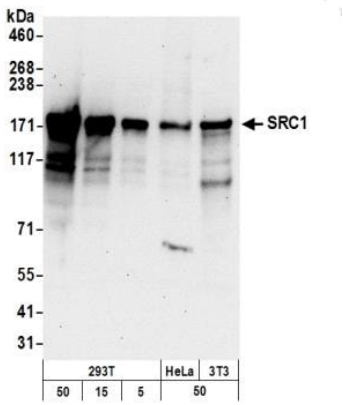
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000.
IHC-P		1/500 - 1/2000.
IP	★★★☆☆ (1)	Use at 2-10 µg/mg of lysate.

Target

Function	Nuclear receptor coactivator that directly binds nuclear receptors and stimulates the transcriptional activities in a hormone-dependent fashion. Involved in the coactivation of different nuclear receptors, such as for steroids (PGR, GR and ER), retinoids (RXRs), thyroid hormone (TRs) and prostanoids (PPARs). Also involved in coactivation mediated by STAT3, STAT5A, STAT5B and STAT6 transcription factors. Displays histone acetyltransferase activity toward H3 and H4; the relevance of such activity remains however unclear. Plays a central role in creating multisubunit coactivator complexes that act via remodeling of chromatin, and possibly acts by participating in both chromatin remodeling and recruitment of general transcription factors. Required with NCOA2 to control energy balance between white and brown adipose tissues. Required for mediating steroid hormone response. Isoform 2 has a higher thyroid hormone-dependent transactivation activity than isoform 1 and isoform 3.
Tissue specificity	Widely expressed.
Involvement in disease	Note=A chromosomal aberration involving NCOA1 is a cause of rhabdomyosarcoma. Translocation t(2;2)(q35;p23) with PAX3 generates the NCOA1-PAX3 oncogene consisting of the N-terminus part of PAX3 and the C-terminus part of NCOA1. The fusion protein acts as a transcriptional activator. Rhabdomyosarcoma is the most common soft tissue carcinoma in childhood, representing 5-8% of all malignancies in children.
Sequence similarities	Belongs to the SRC/p160 nuclear receptor coactivator family. Contains 1 basic helix-loop-helix (bHLH) domain. Contains 1 PAS (PER-ARNT-SIM) domain.
Domain	The C-terminal (1107-1441) part mediates the histone acetyltransferase (HAT) activity. Contains 7 Leu-Xaa-Xaa-Leu-Leu (LXXLL) motifs. LXXLL motifs 3, 4 and 5 are essential for the association with nuclear receptors. LXXLL motif 7, which is not present in isoform 2, increases the affinity for steroid receptors in vitro.
Post-translational modifications	Sumoylated; sumoylation increases its interaction with PGR and prolongs its retention in the nucleus. It does not prevent its ubiquitination and does not exert a clear effect on the stability of the protein. Ubiquitinated; leading to proteasome-mediated degradation. Ubiquitination and sumoylation take place at different sites. Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus.

Images



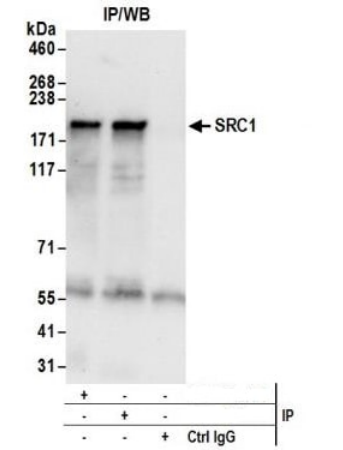
Western blot - Anti-KAT13A / SRC1 antibody (ab5407)

All lanes : Anti-KAT13A / SRC1 antibody (ab5407) at 0.1 µg/ml

Lane 1 : 293T whole cell lysate at 50 µg
Lane 2 : 293T whole cell lysate at 15 µg
Lane 3 : 293T whole cell lysate at 5 µg
Lane 4 : HeLa cells at 50 µg
Lane 5 : Mouse NIH3T3 cells at 50 µg

Detection:Chemiluminescence

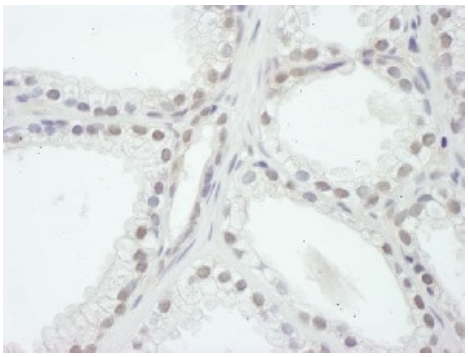
Exposure time:30 seconds



Immunoprecipitation - Anti-KAT13A / SRC1 antibody (ab5407)

KAT13A/SRC1 was immunoprecipitated from 1mg of 293T cells prepared using NETN lysis buffer.

Exposure time: 10 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KAT13A / SRC1 antibody (ab5407)

Immunohistochemical analysis of paraffin-embedded
Human prostate carcinoma labeling KAT13A/SRC1 with ab5407 at 1/1000 dilution.

Detection: DAB.

Counter stained with Hematoxylin.

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

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