


Product datasheet

Anti-Raf1 antibody ab230850

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Overview

Product name	Anti-Raf1 antibody
Description	Rabbit polyclonal to Raf1
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Cow, Orangutan 
Immunogen	Synthetic peptide corresponding to Mouse Raf1 aa 50-150 (N terminal) conjugated to keyhole limpet haemocyanin. Database link: Q99N57 Run BLAST with Run BLAST with
Positive control	WB: Neuro-2a and Jurkat whole cell lysate (ab7899). IHC-P: Human skin tissue. Flow Cyt (Intra): Neuro-2a 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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

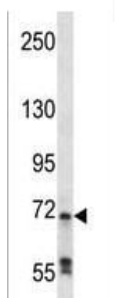
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab230850 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/50.
WB		1/1000. Predicted molecular weight: 73 kDa.
IHC-P		1/100.

Target

Function	Involved in the transduction of mitogenic signals from the cell membrane to the nucleus. Part of the Ras-dependent signaling pathway from receptors to the nucleus. Protects cells from apoptosis mediated by STK3.
Tissue specificity	In skeletal muscle, isoform 1 is more abundant than isoform 2.
Involvement in disease	Defects in RAF1 are the cause of Noonan syndrome type 5 (NS5) [MIM:611553]. Noonan syndrome (NS) is a disorder characterized by dysmorphic facial features, short stature, hypertelorism, cardiac anomalies, deafness, motor delay, and a bleeding diathesis. It is a genetically heterogeneous and relatively common syndrome, with an estimated incidence of 1 in 1000-2500 live births. Defects in RAF1 are the cause of LEOPARD syndrome type 2 (LEOPARD2) [MIM:611554]. LEOPARD syndrome is an autosomal dominant disorder allelic with Noonan syndrome. The acronym LEOPARD stands for lentiginos, electrocardiographic conduction abnormalities, ocular hypertelorism, pulmonic stenosis, abnormalities of genitalia, retardation of growth, and deafness.
Sequence similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. RAF subfamily. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 protein kinase domain. Contains 1 RBD (Ras-binding) domain.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR. Phosphorylation at Thr-269 increases its kinase activity. Phosphorylation at Ser-259 induces the interaction with YWHAZ and inactivates kinase activity. Dephosphorylation of Ser-259 by the complex containing protein phosphatase 1, SHOC2 and M-Ras/MRAS relieves inactivation, leading to stimulate RAF1 activity.
Cellular localization	Cytoplasm. Cell membrane. Colocalizes with RGS14 and BRAF in both the cytoplasm and membranes.

Images

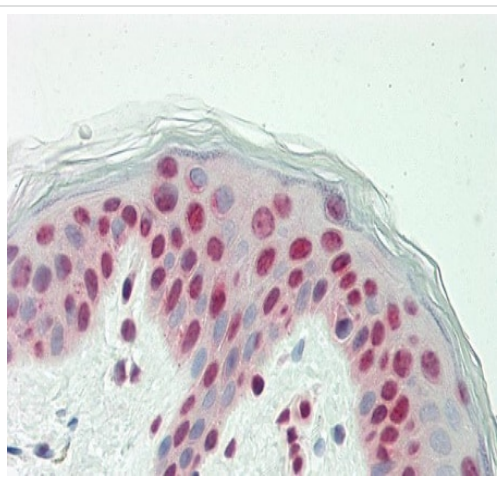


Western blot - Anti-Raf1 antibody (ab230850)

Anti-Raf1 antibody (ab230850) at 1/1000 dilution + Neuro-2a (mouse neuroblastoma cell line) whole cell lysate at 35 μ g

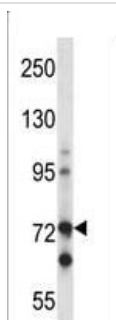
Developed using the ECL technique.

Predicted band size: 73 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Raf1 antibody (ab230850)

Formalin-fixed, paraffin-embedded human skin tissue stained for Raf1 using ab230850 at 1/100 dilution in immunohistochemical analysis.

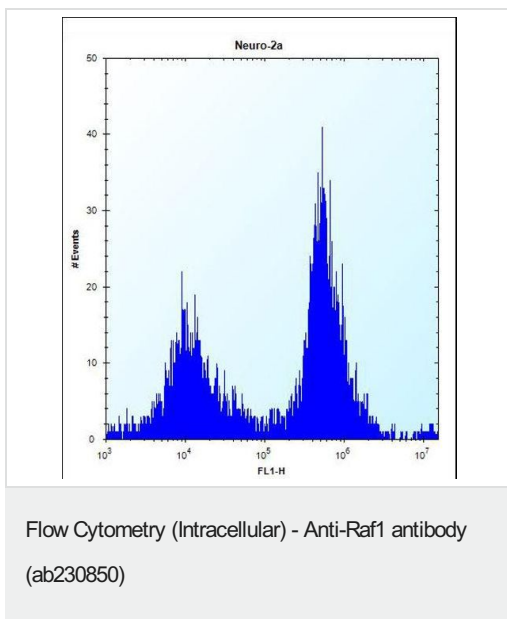


Western blot - Anti-Raf1 antibody (ab230850)

Anti-Raf1 antibody (ab230850) at 1/1000 dilution + Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate at 35 μ g

Developed using the ECL technique.

Predicted band size: 73 kDa



Intracellular flow cytometric analysis of Neuro-2a (mouse neuroblastoma cell line) cell line (right histogram) labeling Raf1 with ab230850 at 1/10 dilution compared with a negative control cell line (left histogram). FITC-conjugated donkey anti-rabbit secondary antibodies were used for the analysis.

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