

Anti-DOK2 antibody ab131488

[3 Images](#)

Overview

Product name	Anti-DOK2 antibody
Description	Rabbit polyclonal to DOK2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide conjugated to KLH, surrounding internal sequence amino acids 297-301 (G-E-Y-A-V) of Human DOK2 (NP_003965.2).
Positive control	Jurkat cell extract; HeLa cells; Human breast carcinoma tissue.
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 -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.88% Sodium chloride</p> <p>PBS without Mg²⁺ and Ca²⁺</p>
Purity	Immunogen affinity purified
Purification notes	ab131488 was purified by affinity chromatography using epitope specific peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab131488 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 - 1/1000. Detects a band of approximately 56 kDa (predicted molecular weight: 45 kDa).
IHC-P		1/50 - 1/100.
ICC/IF		1/100 - 1/200.

Target

Function

DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK2 may modulate the cellular proliferation induced by IL-4, as well as IL-2 and IL-3. May be involved in modulating Bcr-Abl signaling. Attenuates EGF-stimulated MAP kinase activation.

Tissue specificity

Highly expressed in peripheral blood leukocytes, lymph nodes and spleen. Lower expression in thymus, bone marrow and fetal liver.

Sequence similarities

Belongs to the DOK family. Type A subfamily.

Contains 1 IRS-type PTB domain.

Contains 1 PH domain.

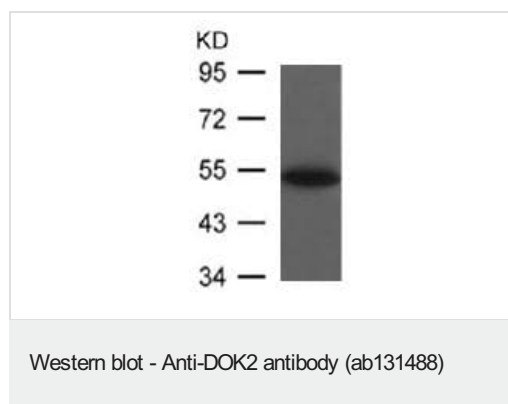
Domain

PTB domain mediates receptor interaction.

Post-translational modifications

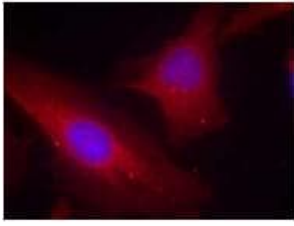
On immunoreceptor stimulation, phosphorylated on C-terminal tyrosine residues. Phosphorylation on Tyr-345 is required for binding to the SH2 domain of NCK. Phosphorylation on both Tyr-271 and Tyr-299 is required for interaction with RASGAP.

Images



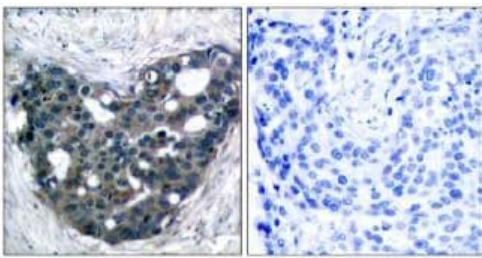
Anti-DOK2 antibody (ab131488) at 1/500 dilution + Jurkat cell extract

Predicted band size: 45 kDa



Immunocytochemistry/ Immunofluorescence - Anti-DOK2 antibody (ab131488)

Immunofluorescent analysis of methanol-fixed HeLa cells labelling DOK2 with ab131488 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DOK2 antibody (ab131488)

Immunohistochemical analysis of paraffin-embedded Human Breast carcinoma tissue labelling DOK2 with ab131488 at 1/50 dilution. The image on the right is treated with the synthesized peptide.

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

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