abcam

Product datasheet

Anti-DOK2 antibody ab37832

2 Images

Overview

Product name	Anti-DOK2 antibody
Description	Rabbit polyclonal to DOK2
Host species	Rabbit
Tested applications	**Suitable for:** WB, ELISA, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide: GWQPGT EYDNVVLKKG PK conjugated to KLH, corresponding to amino acids 395-412 of Human DOK2. Run BLAST with Run BLAST with
Positive control	CEM cell lysate, Human breast carcinoma tissue.

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.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab37832** 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		1/100 - 1/500. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).

Application	Abreviews	Notes
ELISA		1/1000.
IHC-P		1/50 - 1/100.

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.

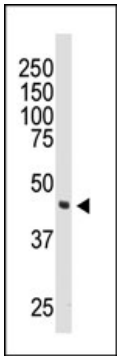
Tissue specificity
Highly expressed in peripheral blood leukocytes, lymph nodes and spleen. Lower expression in thymus, bone marrow and fetal liver.

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

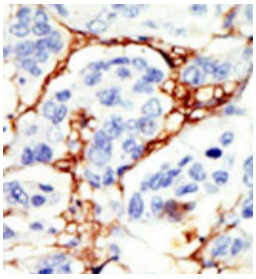


Western blot - Anti-DOK2 antibody (ab37832)

Anti-DOK2 antibody (ab37832) at 1/100 dilution + CEM cell lysate

Secondary
HRP-anti-rabbit

Predicted band size: 45 kDa
Observed band size: 45 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DOK2 antibody (ab37832)

ab37832, at 1/50 dilution, staining DOK2 in Human breast carcinoma tissue by Immunohistochemistry, Formalin fixed, Paraffin embedded tissue. ab37832 was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

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