

Rabbit DOK2 Polyclonal Antibody | anti-DOK2 antibody

Phospho-DOK2 (Tyr345) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329852	Rabbit	Human, Mouse Predicted Reactivity: Pig (100%), Zebrafish (88%), Bovine (100%), Horse (100%), Dog (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DOK2; Polyclonal Antibody; Phospho-DOK2 (Tyr345) Antibody; Docking protein 2 56kDa; Docking protein 2; DOK 2; DOK R; DOK2_HUMAN; Downstream of tyrosine kinase 2; OTTHUMP00000161710; OTTHUMP00000224923; p56 (dok 2); p56 (dok-2); p56dok 2; p56DOK; p56dok2; anti-DOK2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse Predicted Reactivity: Pig (100%), Zebrafish (88%), Bovine (100%), Horse (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-DOK2 (Tyr345) Antibody detects endogenous levels of DOK2 only when phosphorylated at Tyr345. Tissue Specificity: Highly expressed in peripheral blood leukocytes, lymph nodes and spleen. Lower expression in thymus, bone marrow and fetal liver.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-DOK2 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DOK2 around the phosphorylation site of Tyr345.
Conjugation	Unconjugated
Fragment	Fab fragment
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. Phosphorylated on tyrosine residues by TEK/TIE2 (By similarity).
Subunit Structure	Interacts with phosphorylated RASGAP and EGFR. Interacts with RET and NCK. Interacts (via pHdomain) with TEK/TIE2 (tyrosine phosphorylated) (By similarity). (Microbial infection) Interacts with Herpes simplex virus 1 (HHV-1) protein UL46; this interaction induces DOK2 phosphorylation and subsequent degradation.
Similarity	PTB domain mediates receptor interaction. Belongs to the DOK family. Type A subfamily.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/100 staining Mouse stomach tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemisry)
At 1/100 staining Mouse colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of p56 Dok-2 (Phospho-Tyr345) using TNF- α treated HeLa whole cell lysates. -/+ means absence or presence of N peptide/non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from HepG2, using p56 Dok-2 (Phospho-Tyr345) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-DOK2 antibody	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 (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	41406050
NCBI GeneID	9046
NCBI Accession #	NP_003965.2
NCBI GenBank Nucleotide #	NM_003974.2
UniProt Accession #	O60496; Q8N5A4
Molecular Weight	45,379 Da
NCBI Official Full Name	docking protein 2
NCBI Official Synonym Full Names	docking protein 2, 56kDa
NCBI Official Symbol	DOK2
NCBI Official Synonym Symbols	p56DOK; p56dok-2
NCBI Protein Information	docking protein 2; p56(dok-2); downstream of tyrosine kinase 2
UniProt Protein Name	Docking protein 2
UniProt Gene Name	DOK2
UniProt Entry Name	DOK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.