

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com

## **OriGene Technologies GmbH**

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

## AP02521PU-N Polyclonal Antibody to DOK2 / p56 dok2 pTyr299 - Aff - Purified

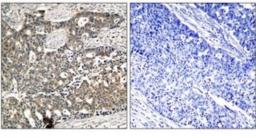
Alternate names:	Decking protain 2 Downstroom of twosing kingso 2 nE((dek 2) nE(Dek 2
	Docking protein 2, Downstream of tyrosine kinase 2, p56(dok-2), p56Dok-2
Quantity:	0.1 mg
Concentration:	1.0 mg/ml Docking proteins interact with receptor tyrosine kinases and mediate particular
Background:	biological responses using signal transduction. DOK2 acts as a multiple docking protein downstream of receptor or non-receptor tyrosine kinases. By this mechanism it acts to negatively regulate signal transduction and cell proliferation controlled by cytokines in a feedback loop. DOK2 is highly expressed in cells and tissues of hematopoietic origin as well as in lung. Expression of bcr/abl induces additional tyrosine phosphorylation of the DOK1 and DOK2 proteins and their association with Ras-GAP. Thus, it is suspected that DOK association regulates GAP activity toward Ras and that the DOK proteins serve as mediators of bcr-abl signaling. The role of DOK proteins in bcr-abl regulation may also be implicated in chronic myelogenous leukemia (CML), which is characterized by a Philadelphia chromosome translocation t(9;22). Such a mutation would result in a p210-bcr/abl chimeric protein-tyrosine kinase which has been found in many CML cases.
Uniprot ID:	<u>060496</u>
NCBI:	<u>NP_003965.2</u>
GenelD:	<u>9046</u>
Host:	Rabbit
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human p56Dok-2 around the phosphorylation site of tyrosine 299 (G-E-YP-A-V).
Format:	<ul> <li>State: Liquid purified lg fraction.</li> <li>Purification: Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatogramphy using non-phosphopeptide corresponding to the phosphorylation site.</li> <li>Buffer System: PBS(without Mg2+ and Ca2+), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol</li> </ul>
Applications:	Western Blot: 1/500-1/1000. Immunofluorescence: 1/100-1/200. Immunohistochemistry on Paraffin-Embedded Sections: 1/50-1/100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects endogenous levels of p56Dok-2 only when phosphorylated at Tyrosine 299. <b>Species:</b> Human. Other species not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

## Scheme AP02521PU-N: Polyclonal Antibody to DOK2 / p56 dok2 pTyr299 - Aff - Purified

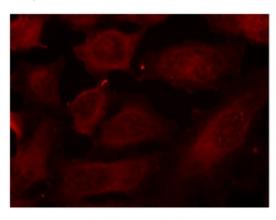
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.	
General Readings:	1. Feng Cong, et,al. (1999) Mol. Cell. Biol ; 19: 8314 - 8325. 2. Serge Lemay, et,al. (2000) Mol. Cell. Biol ; 20: 2743 - 2754. 3. Ute Schaeper, et,al.(2000) J. Cell Biol ; 149: 1419. 4. Miyuki Honma, et,al. (2006) Genes Cells; 11: 143 - 151.	
Pictures:	<b>Figure 1.</b> Immunohistochemical analysis of paraffin- embedded human breast	CA-CP IN

**Figure 1.** Immunohistochemical analysis of paraffin- embedded human breast carcinoma tissue, using p56Dok-2 pTyr299 antibody AP02521PU.

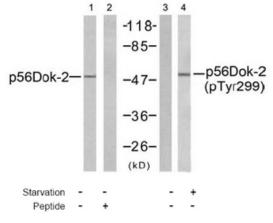


P-Peptide

**Figure 3.** Immunofluorescence staining of methanol-fixed HeLa cells using p56Dok-2 pTyr299 antibody AP02521PU (Red).



**Figure 2.** Western blot analysis of extracts from K562 cells, using p56Dok-2 antibody AP02769PU (Line 1 and 2) and p56Dok-2 pTyr299 antibody AP02521PU (Line 3 and 4).



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