

**Datasheet for 600-401-AW9****DOK1 Antibody****Overview**

<b>Description:</b>	Anti-DOK1 (RABBIT) Antibody - 600-401-AW9
<b>Item No.:</b>	600-401-AW9
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, IF, IHC, WB
<b>Reactivity:</b>	Human
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	Signals from most growth factors and cytokines are transduced by receptor tyrosine kinases or non-receptor tyrosine kinases. Activated tyrosine kinases phosphorylate their substrates, which mediate the cellular response to extracellular stimuli. A long-sought major substrate termed p62dok (downstream of tyrosine kinase) for many tyrosine kinases including c-kit, v-abl, v-Fps, v-Src, v-Fms, and activated EGF, PDGF, IGF, VEGF and insulin receptors was identified recently from human and mouse by several laboratories. Upon phosphorylation, p62dok forms a complex with the ras GTPase-activating protein (RasGAP). p62dok represents a new family with very recently identified p56dok.
<b>Synonyms:</b>	DOK1 Antibody, TP1, TLP1, p240, TROVE1, VAULT2, Docking protein 1, Downstream of tyrosine kinase 1
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	DOK1
<b>Reactivity:</b>	Human
<b>Immunogen Type:</b>	Conjugated Peptide

<b>Immunogen:</b>	Anti-DOK1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to amino acids near the C-terminus of human DOK1.
<b>Purity/Specificity:</b>	Anti-DOK1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with DOK1 from other sources has not been determined.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q99704</a></li><li>• <a href="#">GeneID - 7011</a></li><li>• <a href="#">NCBI - AAC51127</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, IF, IHC, WB
<b>Application Note:</b>	Anti-DOK1 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 53 kDa in Western Blots of specific cell lysates and tissues.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:10,000
<b>IF:</b>	10 µg/mL
<b>WB:</b>	1 µg/mL

## Formulation

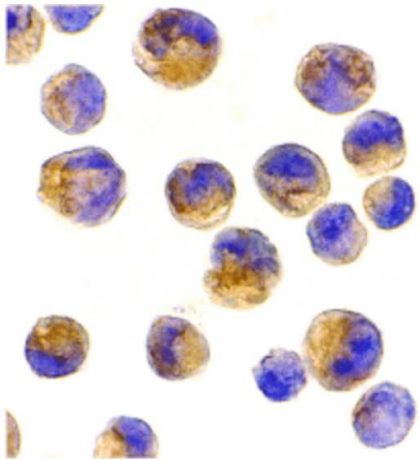
<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.02% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
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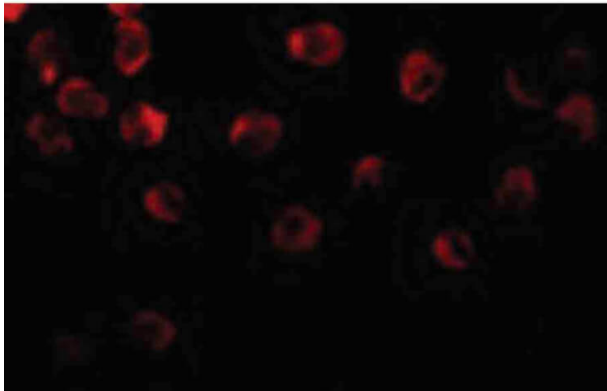
<b>Storage Condition:</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



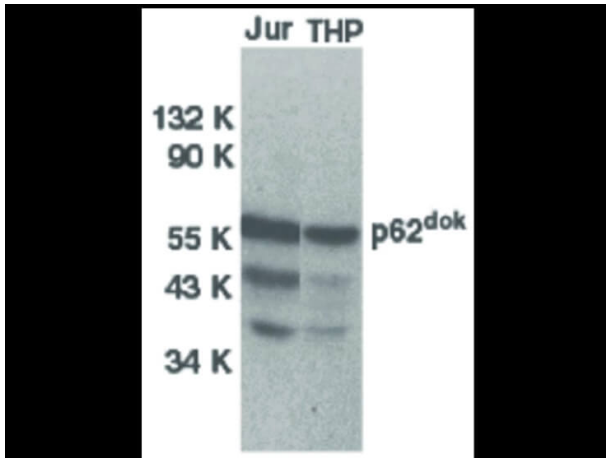
### Immunohistochemistry

Immunocytochemistry of Rabbit DOK1 antibody. Cell Type: K562 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: DOK1 antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DOK1 is cytoplasmic and occasionally nuclear. Staining: DOK1 as precipitated brown signal with hematoxylin purple nuclear counterstain.



### Immunofluorescence Microscopy

Immunofluorescence Microscopy of Rabbit anti-DOK1 antibody. Cell Type: K562 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: anti-DOK1 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DOK1 is cytoplasmic and occasionally nuclear. Staining: DOK1 as red fluorescent signal with bis-benzimide (blue) nuclear counterstain.

**Western Blot**

Western Blot of Rabbit anti-DOK1 antibody. Lane 1: Jurkat (Jur) lysate at 1 µg/mL. Lane 2: THP-1 (THP) lysate at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 52.4 kDa, 55 kDa for DOK1. Other band(s): DOK1 variants and isoforms.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.