

**Goat Anti-DOK5 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1336a****Specification**

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**Goat Anti-DOK5 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q9P104</a>
Other Accession	<a href="#">NP_060901</a> , <a href="#">55816</a> , <a href="#">76829 (mouse)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	35464

**Goat Anti-DOK5 Antibody - Additional Information****Gene ID** 55816**Other Names**

Docking protein 5, Downstream of tyrosine kinase 5, Insulin receptor substrate 6, IRS-6, IRS6, DOK5, C20orf180

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-DOK5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-DOK5 Antibody - Protein Information****Name** DOK5**Synonyms** C20orf180**Function**

DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK5 functions in RET-mediated neurite outgrowth and plays a positive role in activation of the MAP kinase pathway. Putative link

with downstream effectors of RET in neuronal differentiation.

#### Tissue Location

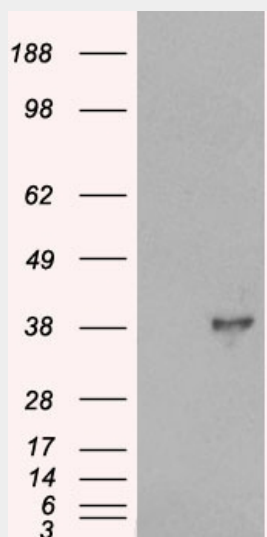
Highest expression in skeletal muscle, lower in brain, heart and kidney. Also detected in activated peripheral blood T- lymphocytes.

#### Goat Anti-DOK5 Antibody - Protocols

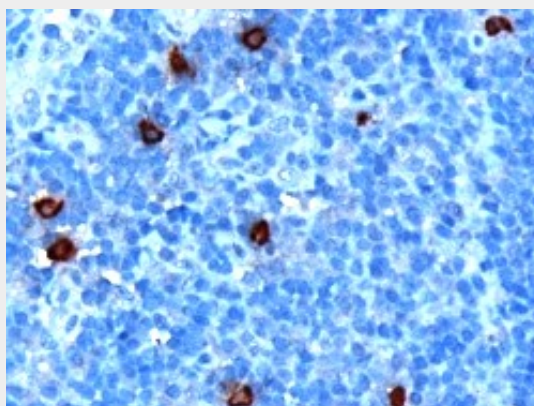
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Goat Anti-DOK5 Antibody - Images



HEK293 overexpressing DOK5 (RC211718) and probed with AF1336a (mock transfection in first lane), tested by Origene.



AF1336a (1 µg/ml) staining of paraffin embedded Human Tonsil. Microwaved antigen retrieval with citrate buffer pH6, HRP-staining.

#### **Goat Anti-DOK5 Antibody - Background**

The protein encoded by this gene is a member of the DOK family of membrane proteins, which are adapter proteins involved in signal transduction. The encoded protein interacts with phosphorylated receptor tyrosine kinases to mediate neurite outgrowth and activation of the MAP kinase pathway. In contrast to other DOK family proteins, this protein does not interact with RASGAP.

#### **Goat Anti-DOK5 Antibody - References**

A genome-wide association study of amygdala activation in youths with and without bipolar disorder. Liu X, et al. J Am Acad Child Adolesc Psychiatry, 2010 Jan. PMID 20215924. Evaluation of DOK5 as a susceptibility gene for type 2 diabetes and obesity in North Indian population. Tabassum R, et al. BMC Med Genet, 2010 Feb 27. PMID 20187968. Dok5 is substrate of TrkB and TrkC receptors and involved in neurotrophin induced MAPK activation. Shi L, et al. Cell Signal, 2006 Nov. PMID 16647839. Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.