10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

Goat Anti-DOK5 Antibody

Peptide-affinity purified goat antibody

Catalog # AF1336a

Specification

Goat Anti-DOK5 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O9P104
Other Accession	NP_060901, 55816, 76829 (mouse)
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

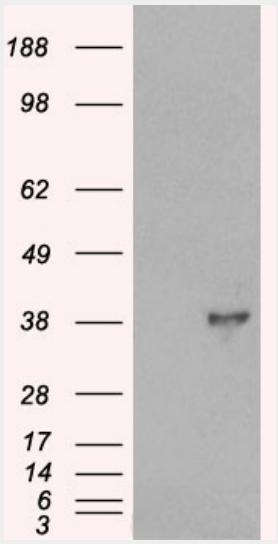
Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

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.

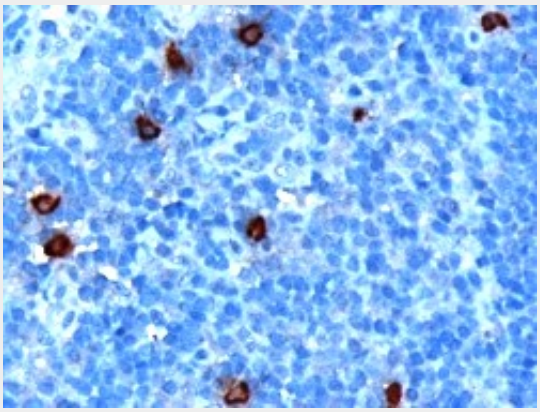
Precautions
Goat Anti-DOK5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-DOK5 Antibody - Protein Information

Name DOK5



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

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 Cytomety
- Cell Culture

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.