10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-PAX3 Antibody

Peptide-affinity purified goat antibody

Catalog # AF1791a

Specification

Goat Anti-PAX3 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P23760
Other Accession	NP_852126, 5077, 18505 (mouse), 114502 (rat)
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**52968**

Goat Anti-PAX3 Antibody - Additional Information

Gene ID 5077

Other Names
Paired box protein Pax-3, HuP2, PAX3, HUP2

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-PAX3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PAX3 Antibody - Protein Information

Name PAX3

Synonyms HUP2

Function
Transcription factor that may regulate cell proliferation, migration and apoptosis. Involved in neural development and myogenesis. Transcriptional activator of MITF, acting synergistically with SOX10 (PubMed:21965087).

Cellular Location
Nucleus.

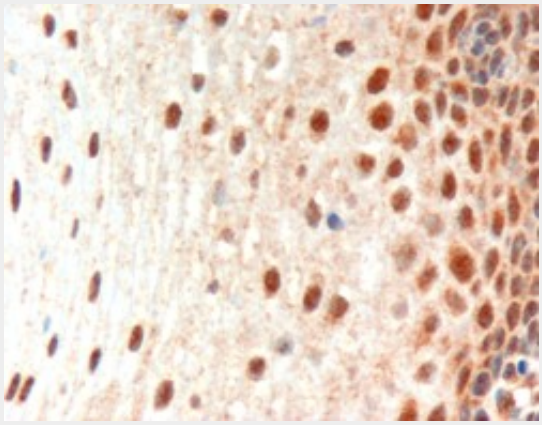
Goat Anti-PAX3 Antibody - Protocols

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

Goat Anti-PAX3 Antibody - Images

AF1791a (0.3 µg/ml) staining of Human Duodenum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1791a (3 µg/ml) staining of paraffin embedded Human Oesophagus. Microwaved antigen retrieval with Tris/EDTA buffer pH9, HRP-staining. Data obtained using previous batch.

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Goat Anti-PAX3 Antibody - Background

This gene is a member of the paired box (PAX) family of transcription factors. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These genes play critical roles during fetal development. Mutations in paired box gene 3 are associated with Waardenburg syndrome, craniofacial-deafness-hand syndrome, and alveolar rhabdomyosarcoma. The translocation t(2;13)(q35;q14), which represents a fusion between PAX3 and the forkhead gene, is a frequent finding in alveolar rhabdomyosarcoma. Alternative splicing results in transcripts encoding isoforms with different C-termini.

Goat Anti-PAX3 Antibody - References

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
Novel mutations of PAX3, MITF, and SOX10 genes in Chinese patients with type I or type II Waardenburg syndrome. Chen H, et al. Biochem Biophys Res Commun, 2010 Jun 18. PMID 20478267.
Fusion gene-negative alveolar rhabdomyosarcoma is clinically and molecularly indistinguishable from embryonal rhabdomyosarcoma. Williamson D, et al. J Clin Oncol, 2010 May 1. PMID 20351326.
PAX3 and SOX10 activate MET receptor expression in melanoma. Mascarenhas JB, et al. Pigment Cell Melanoma Res, 2010 Apr. PMID 20067553.