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Goat Anti-Actin-like 7B Antibody

Peptide-affinity purified goat antibody

Catalog # AF1021b

Specification

Goat Anti-Actin-like 7B Antibody - Product Information

Application	**WB**
Primary Accession	Q9Y614
Other Accession	NP_006677, 10880
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**45234**

Goat Anti-Actin-like 7B Antibody - Additional Information

Gene ID 10880

Other Names
Actin-like protein 7B, Actin-like-7-beta, ACTL7B

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-Actin-like 7B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Actin-like 7B Antibody - Protein Information

Name ACTL7B

Cellular Location
Cytoplasm, cytoskeleton.

Tissue Location
Detected only in the testis and, to a lesser extent, in the prostate.

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Goat Anti-Actin-like 7B 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-Actin-like 7B Antibody - Images

AF1021b (0.03 µg/ml) staining of human testis lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Actin-like 7B Antibody - Background

The protein encoded by this gene is a member of a family of actin-related proteins (ARPs) which share significant amino acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. This gene (ACTL7B), and related gene, ACTL7A, are intronless, and are located approximately 4 kb apart in a head-to-head orientation within the familial dysautonomia candidate region on 9q31. Based on mutational analysis of the ACTL7B gene in patients with this disorder, it was concluded that it is unlikely to be involved in the pathogenesis of dysautonomia. Unlike ACTL7A, the ACTL7B gene is expressed predominantly in the testis, however, its exact function is not known.

Goat Anti-Actin-like 7B Antibody - References

Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.
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Methylation of CpG dinucleotides in the open reading frame of a testicular germ cell-specific intronless gene, Tact1/Actl7b, represses its expression in somatic cells. Hisano M, et al. Nucleic Acids Res, 2003 Aug 15. PMID 12907721.