

Goat Anti-Actin-like 7B Antibody
Peptide-affinity purified goat antibody
Catalog # AF1021b**Specification**

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

Application	WB, E
Primary Accession	O9Y614
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

Dilution

WB~~1:1000

E~~N/A

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.

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 Cytometry](#)
- [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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DNA sequence and analysis of human chromosome 9. Humphray SJ, et al. Nature, 2004 May 27. PMID 15164053.

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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.