

Goat Anti-Pescadillo Antibody

Peptide-affinity purified goat antibody Catalog # AF1815a

Specification

Goat Anti-Pescadillo Antibody - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Concentration Isotype Calculated MW WB, IHC, E <u>O00541</u> NP_055118, 23481, 64934 (mouse) Human Mouse, Pig Goat Polyclonal 100ug/200ul IgG 68003

Goat Anti-Pescadillo Antibody - Additional Information

Gene ID 23481

Other Names Pescadillo homolog {ECO:0000255|HAMAP-Rule:MF_03028}, PES1 {ECO:0000255|HAMAP-Rule:MF_03028}

Dilution WB~~1:1000 IHC~~1:100~500 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-Pescadillo Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Pescadillo Antibody - Protein Information

Name PES1 {ECO:0000255|HAMAP-Rule:MF_03028}

Function



Component of the PeBoW complex, which is required for maturation of 28S and 5.8S ribosomal RNAs and formation of the 60S ribosome.

Cellular Location

Nucleus, nucleolus. Nucleus, nucleoplasm. Chromosome. Note=Appears to localize to the periphery of metaphase chromosomes during mitosis and to the prenucleolar bodies that form in mitotic cells prior to the actual nucleoli. {ECO:0000255|HAMAP- Rule:MF_03028}

Tissue Location

Significant levels are detected in a variety of cancer cell lines, including glioblastoma, breast carcinoma, colon carcinoma and cervical carcinoma cells. Levels are abnormally elevated in malignant tumors of astrocytic origin

Goat Anti-Pescadillo Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Goat Anti-Pescadillo Antibody - Images

	250kDa
	150kDa 100kDa
in the second	75kDa
	50kDa
	37kDa
	25kDa
	2040-2
	ZUKDa

AF1815a (1 μ g/ml) staining of Hela lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.





AF1815a (3.8 μ g/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-Pescadillo Antibody - Background

This gene encodes a protein that is abnormally elevated in malignant tumors of astrocytic origin. It is a strongly conserved gene containing a BRCT domain that is essential for the activity of this gene product. The gene plays a crucial role in cell proliferation and may be necessary for oncogenic transformation and tumor progression.

Goat Anti-Pescadillo Antibody - References

B23 interacts with PES1 and is involved in nucleolar localization of PES1. Zhang J, et al. Acta Biochim Biophys Sin (Shanghai), 2009 Dec. PMID 20011973.

Down-regulation of pescadillo inhibits proliferation and tumorigenicity of breast cancer cells. Li J, et al. Cancer Sci, 2009 Dec. PMID 19764998.

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.

Interdependence of Pes1, Bop1, and WDR12 controls nucleolar localization and assembly of the PeBoW complex required for maturation of the 60S ribosomal subunit. Rohrmoser M, et al. Mol Cell Biol, 2007 May. PMID 17353269.

Dominant-negative Pes1 mutants inhibit ribosomal RNA processing and cell proliferation via incorporation into the PeBoW-complex. Grimm T, et al. Nucleic Acids Res, 2006. PMID 16738141.