

**Goat Anti-VPS45 (Internal) Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2155b**

**Specification**

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**Goat Anti-VPS45 (Internal) Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9NRW7</a>
Other Accession	<a href="#">NP_009190</a> , <a href="#">11311</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	65077

**Goat Anti-VPS45 (Internal) Antibody - Additional Information**

**Gene ID** 11311

**Other Names**

Vacuolar protein sorting-associated protein 45, h-VPS45, hVps45, VPS45, VPS45A, VPS45B

**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-VPS45 (Internal) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-VPS45 (Internal) Antibody - Protein Information**

**Name** VPS45

**Synonyms** VPS45A, VPS45B

**Function**

May play a role in vesicle-mediated protein trafficking from the Golgi stack through the trans-Golgi network.

**Cellular Location**

Golgi apparatus membrane; Peripheral membrane protein. Endosome membrane; Peripheral membrane protein Note=Associated with Golgi/endosomal vesicles and the trans-Golgi network.

#### **Tissue Location**

Ubiquitous. Expression was highest in testis, heart and brain, intermediate in kidney, spleen, prostate, ovary, small intestine and thymus and low in lung, skeletal muscle, placenta, colon, pancreas, peripheral blood leukocytes and liver

#### **Goat Anti-VPS45 (Internal) 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-VPS45 (Internal) Antibody - Images**



AF2155b (0.03 µg/ml) staining of human placenta lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **Goat Anti-VPS45 (Internal) Antibody - Background**

Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene is a member of the Sec1 domain family, and shows a high degree of sequence similarity to mouse, rat and yeast Vps45. The exact function of this gene is not known, but its high expression in peripheral blood mononuclear cells suggests a role in trafficking proteins, including inflammatory mediators.

#### **Goat Anti-VPS45 (Internal) Antibody - References**

Common and distinct roles for the binding partners Rabenosyn-5 and Vps45 in the regulation of

endocytic trafficking in mammalian cells. Rahajeng J, et al. Exp Cell Res, 2010 Mar 10. PMID 19931244.

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.

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.

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Identification of mouse Vps16 and biochemical characterization of mammalian class C Vps complex. Kim BY, et al. Biochem Biophys Res Commun, 2003 Nov 21. PMID 14623309.