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Goat Anti-VPS25 Antibody

Peptide-affinity purified goat antibody
Catalog # AF2149a

Specification

Goat Anti-VPS25 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q9BRG1
Other Accession	NP_115729, 84313
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**20748**

Goat Anti-VPS25 Antibody - Additional Information

Gene ID 84313

Other Names
Vacuolar protein-sorting-associated protein 25, hVps25, Dermal papilla-derived protein 9, ELL-associated protein of 20 kDa, ESCRT-II complex subunit VPS25, VPS25, DERP9, EAP20

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-VPS25 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-VPS25 Antibody - Protein Information

Name VPS25

Synonyms DERP9, EAP20

Function
Component of the ESCRT-II complex (endosomal sorting complex required for transport II), which is required for multivesicular body (MVB) formation and sorting of endosomal cargo proteins into MVBs. The MVB pathway mediates delivery of transmembrane proteins into the lumen of the

lysosome for degradation. The ESCRT-II complex is probably involved in the recruitment of the ESCRT-III complex. The ESCRT-II complex may also play a role in transcription regulation, possibly via its interaction with ELL. The ESCRT-II complex may be involved in facilitating the budding of certain RNA viruses.

Cellular Location
Cytoplasm. Endosome membrane. Nucleus, nucleoplasm. Note=Distributes diffusely throughout the cytoplasm and nucleoplasm, but exhibits a punctate distribution on coexpression with CHMP6

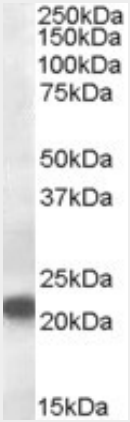
Tissue Location
Expressed at the mRNA level in kidney, liver, pancreas, and placenta. Lower levels of expression are found in heart, skeletal muscle, brain and lung.

Goat Anti-VPS25 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-VPS25 Antibody - Images



EB07071 (0.5µg/ml) staining of Rat Kidney lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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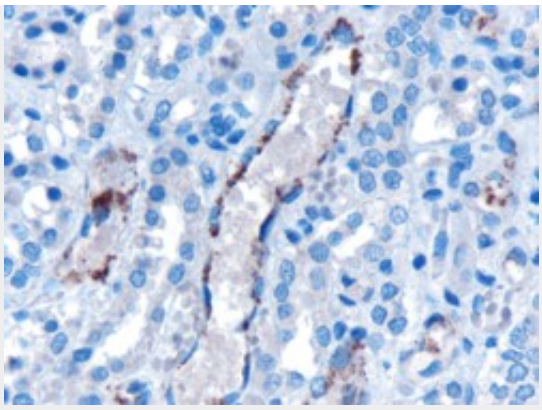

EB07071 (10µg/ml) staining of paraffin embedded human kidney. Microwaved antigen retrieval with Tris/EDTA buffer pH9, HRP-staining. **This data is from a previous batch, not on sale.**

Goat Anti-VPS25 Antibody - Background

VPS25, VPS36 (MIM 610903), and SNF8 (MIM 610904) form ESCRT-II (endosomal sorting complex required for transport II), a complex involved in endocytosis of ubiquitinated membrane proteins. VPS25, VPS36, and SNF8 are also associated in a multiprotein complex with RNA polymerase II elongation factor (ELL; MIM 600284) (Slagsvold et al., 2005 [PubMed 15755741]; Kamura et al., 2001 [PubMed 11278625]).

Goat Anti-VPS25 Antibody - References

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.
Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.
Structure and function of the ESCRT-II-III interface in multivesicular body biogenesis. Im YJ, et al. Dev Cell, 2009 Aug. PMID 19686684.
Degradation of endocytosed epidermal growth factor and virally ubiquitinated major histocompatibility complex class I is independent of mammalian ESCRTII. Bowers K, et al. J Biol Chem, 2006 Feb 24. PMID 16371348.
Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.