10320 Camino Santa Fe, Suite G
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Goat Anti-HRS / HGS Antibody
Peptide-affinity purified goat antibody
Catalog # AF1541a

Specification

Goat Anti-HRS / HGS Antibody - Product Information

Application	**IHC, E**
Primary Accession	O14964
Other Accession	NP_004703, 9146, 15239 (mouse), 56084 (rat)
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**86192**

Goat Anti-HRS / HGS Antibody - Additional Information

Gene ID 9146

Other Names
Hepatocyte growth factor-regulated tyrosine kinase substrate, Hrs, Protein pp110, HGS, HRS

Dilution
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-HRS / HGS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-HRS / HGS Antibody - Protein Information

Name HGS

Synonyms HRS

Function

Involved in intracellular signal transduction mediated by cytokines and growth factors. When associated with STAM, it suppresses DNA signaling upon stimulation by IL-2 and GM-CSF. Could be a direct effector of PI3-kinase in vesicular pathway via early endosomes and may regulate trafficking to early and late endosomes by recruiting clathrin. May concentrate ubiquitinated receptors within clathrin- coated regions. Involved in down-regulation of receptor tyrosine kinase via multivesicular body (MVBs) when complexed with STAM (ESCRT-0 complex). The ESCRT-0 complex binds ubiquitin and acts as a sorting machinery that recognizes ubiquitinated receptors and transfers them to further sequential lysosomal sorting/trafficking processes. May contribute to the efficient recruitment of SMADs to the activin receptor complex. Involved in receptor recycling via its association with the CART complex, a multiprotein complex required for efficient transferrin receptor recycling but not for EGFR degradation.

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q9JJ50}. Early endosome membrane; Peripheral membrane protein; Cytoplasmic side Endosome, multivesicular body membrane {ECO:0000250|UniProtKB:Q9JJ50}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9JJ50} Note=Colocalizes with UBQLN1 in ubiquitin-rich cytoplasmic aggregates that are not endocytic compartments.

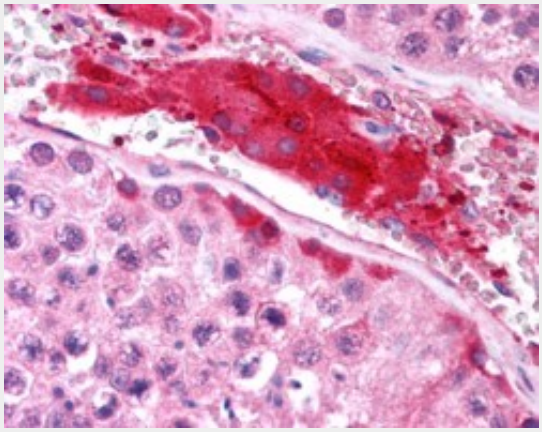
Tissue Location
Ubiquitous expression in adult and fetal tissues with higher expression in testis and peripheral blood leukocytes

Goat Anti-HRS / HGS 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-HRS / HGS Antibody - Images



AF1541a (2.5 µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

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Hrs regulates the endocytic sorting of the fibroblast growth factor receptor 2b. Belleudi F, et al. Exp Cell Res, 2009 Aug 1. PMID 19362549.
Essential role of Hrs in endocytic recycling of full-length TrkB receptor but not its isoform TrkB.T1. Huang SH, et al. J Biol Chem, 2009 May 29. PMID 19351881.
SCAMP3 negatively regulates epidermal growth factor receptor degradation and promotes receptor recycling. Aoh QL, et al. Mol Biol Cell, 2009 Mar. PMID 19158374.
Proteomic analysis reveals Hrs ubiquitin-interacting motif-mediated ubiquitin signaling in multiple cellular processes. Pridgeon JW, et al. FEBS J, 2009 Jan. PMID 19019082.
Hrs and SNX3 functions in sorting and membrane invagination within multivesicular bodies. Pons V, et al. PLoS Biol, 2008 Sep 2. PMID 18767904.