

Rabbit HGS Polyclonal Antibody | anti-HGS antibody

HGS Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320953	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

HGS; Polyclonal Antibody; HGS Antibody; Hepatocyte growth factor regulated tyrosine kinase substrate; Hepatocyte growth factor-regulated tyrosine kinase substrate; HGF-regulated tyrosine kinase substrate; HGNC:4897; HGS_HUMAN; Hrs; Human growth factor regulated tyrosine kinase substrate; Protein pp110; ZFYVE8; anti-HGS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HGS antibody detects endogenous levels of total HGS
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	777
Applicable Applications for anti-HGS antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HGS
Subcellular Location	Cytoplasm. Early Endosome Membrane. Endosome > Multivesicular Body Membrane.
Tissue Specificity	Ubiquitous expression in adult and fetal tissues with higher expression in testis and peripheral blood leukocytes.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (88%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)

AAA320953 staining MCF-7 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis on HepG2 cell lysate using HGS Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of HGS expression in Rat brain lysate



IHC (Immunohistochemistry)

AAA320953 at 1/100 staining human pancreas tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-HGS antibody

Description: Hrs a zinc finger protein which is rapidly tyrosine phosphorylated in cells stimulated with various growth factors. Hrs mRNA is expressed in all the human adult and fetal tissues tested.

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 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.

Subunit Structure: Component of the ESCRT-0 complex composed of STAM or STAM2 and HGS. Part of a complex at least composed of HSG, STAM2 (or probably STAM) and EPS15 (PubMed:12551915). Interacts with STAM (PubMed:9407053). Interacts with STAM2 (By similarity). Interacts with EPS15; the interaction is direct, calcium-dependent and inhibited by SNAP25 (By similarity). Identified in a complex with STAM and LITAF (PubMed:23166352). Found in a complex with STAM and E3 ligase ITCH and DTX3L (PubMed:24790097). Interacts with E3 ligase DTX3L; the interaction brings together STAM and HSG, promotes their recruitment to early endosomes and decreases STAM and HGS ubiquitination by ITCH (PubMed:24790097). Interacts with NF2; the interaction is direct (PubMed:10861283). Interacts with ubiquitin; the interaction is direct (By similarity). Interacts with VPS37C (PubMed:15509564). Interacts with SMAD1, SMAD2 and SMAD3 (By similarity). Interacts with TSG101; the interaction mediates the association with the ESCRT-I complex (PubMed:21070952). Interacts with SNAP25; the interaction is direct and decreases with addition of increasing concentrations of free calcium (By similarity). Interacts with SNX1; the interaction is direct (By similarity). Component of a 550 kDa membrane complex at least composed of HGS and SNX1 but excluding EGFR (By similarity). Interacts with TRAK1 (PubMed:18675823). Interacts with TRAK2 (By similarity). Component of the CART complex, at least composed of ACTN4, HGS/HRS, MYO5B and TRIM3 (PubMed:15772161). Interacts (via UIM domain) with UBQLN1 (via ubiquitin-like domain) (By similarity). Interacts with ARRDC3 (PubMed:23208550). Identified in a complex containing at least ARRDC4, AVPR2 and HGS (PubMed:23236378). Interacts with LAPTM4B; promotes HGS ubiquitination (PubMed:25588945).

Post-translational Modifications: Phosphorylated on Tyr-334. A minor site of phosphorylation on Tyr-329 is detected (By similarity). Phosphorylation occurs in response to EGF, IL-2, GM-CSF and HGF. Ubiquitinated (PubMed:25588945). Ubiquitinated by ITCH (PubMed:14602072, PubMed:24790097).

Similarity: Has a double-sided UIM that can bind 2 ubiquitin molecules, one on each side of the helix. The FYVE-type zinc finger domain mediates interactions with phosphatidylinositol 3-phosphate in membranes of early endosomes and penetrates bilayers. The FYVE domain insertion into PtdIns3P-enriched membranes is substantially increased in acidic conditions.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758528
NCBI GeneID	9146
NCBI Accession #	NP_004703.1
NCBI GenBank Nucleotide #	NM_004712.4
UniProt Accession #	O14964; Q9NR36
Molecular Weight	Observed: 86 kDa Predicted: 87 kDa
NCBI Official Full Name	hepatocyte growth factor-regulated tyrosine kinase substrate
NCBI Official Synonym Full Names	hepatocyte growth factor-regulated tyrosine kinase substrate
NCBI Official Symbol	HGS
NCBI Official Synonym Symbols	HRS
NCBI Protein Information	hepatocyte growth factor-regulated tyrosine kinase substrate
UniProt Protein Name	Hepatocyte growth factor-regulated tyrosine kinase substrate
UniProt Gene Name	HGS
UniProt Synonym Gene Names	HRS

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