


Product datasheet

Anti-HGS antibody ab61194

2 Images

Overview

Product name	Anti-HGS antibody
Description	Rabbit polyclonal to HGS
Host species	Rabbit
Specificity	Detects endogenous levels of total HGS.
Tested applications	Suitable for: ELISA, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Synthetic non phosphopeptide (Human) from around the phosphorylation site of tyrosine 334 (RNY ^P WE)
Positive control	Brain tissue

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ and Ca ²⁺), 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab61194** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

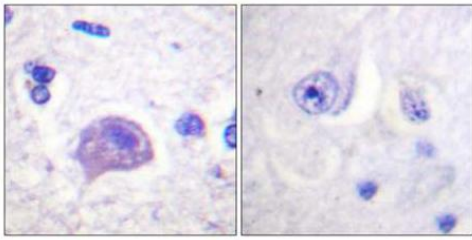
Application	Abreviews	Notes
ELISA		1/5000.

Application	Abreviews	Notes
IHC-P		1/50 - 1/100.
ICC/IF		1/100 - 1/500.

Target

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.
Tissue specificity	Ubiquitous expression in adult and fetal tissues with higher expression in testis and peripheral blood leukocytes.
Sequence similarities	Contains 1 FYVE-type zinc finger. Contains 1 UIM (ubiquitin-interacting motif) repeat. Contains 1 VHS domain.
Domain	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 PtdIns(3)P-enriched membranes is substantially increased in acidic conditions.
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 by ITCH.
Cellular localization	Cytoplasm. Early endosome membrane. Endosome > multivesicular body membrane.

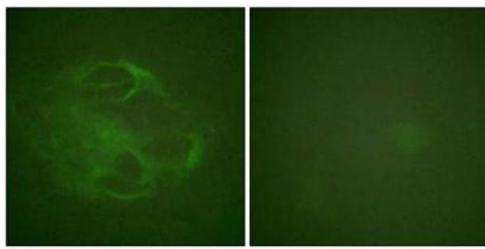
Images



Peptide - +

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HGS antibody (ab61194)

1/50-1/100 ab61194 staining total HRS on human brain tissue sections. Samples were treated +/- peptide.



TNF- α + -

Immunocytochemistry/ Immunofluorescence - HGS antibody (ab61194)

Immunofluorescence analysis of HeLa cells treated (left) or not(right) with 20nM TNF-alpha for 15 minutes, using 1/100-1/500 ab61194.

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