

## Product datasheet

# Anti-HGS antibody ab61194

[2 Images](#)

### Overview

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

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150mM Sodium chloride, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	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.
IHC-P		1/50 - 1/100.

Application	Abreviews	Notes
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.

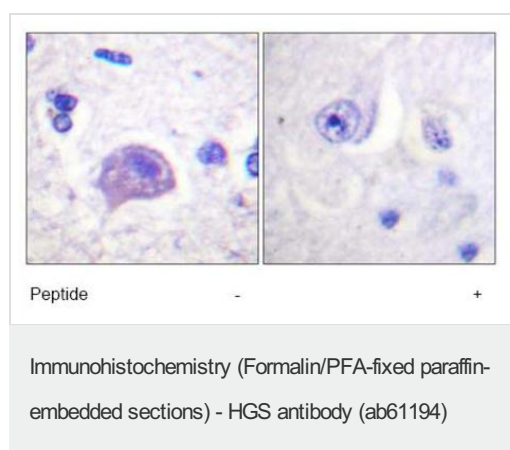
### Post-translational modifications

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.

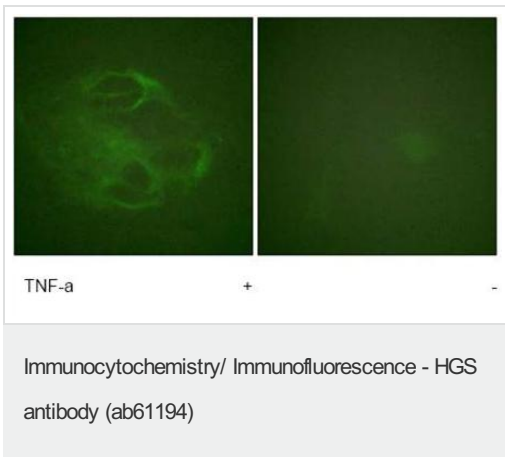
### Cellular localization

Cytoplasm. Early endosome membrane. Endosome > multivesicular body membrane.

## Images



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



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

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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