

Product datasheet

Anti-HGS antibody [19-5] ab150653

[1 Image](#)

Overview

Product name	Anti-HGS antibody [19-5]
Description	Mouse monoclonal [19-5] to HGS
Host species	Mouse
Specificity	The antibody recognizes an epitope is located between the VHS and coiled-coil domain of the HRS protein.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length Human HGS.
Epitope	The epitope for ab150653 is located between the VHS and coiled-coil domain of HGS.
Positive control	Human brain tissue and HeLa lysates.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.20 Constituent: 100% Phosphate Buffer
Purity	Protein G purified
Purification notes	Lyophilized protein G purified in PBS pH7.4
Clonality	Monoclonal
Clone number	19-5
Isotype	IgG2b

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab150653 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
WB		1/1000. Predicted molecular weight: 86 kDa.

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.

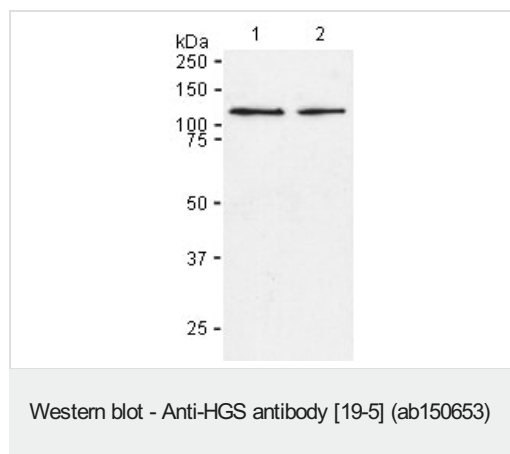
Post-translational modifications

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



All lanes : Anti-HGS antibody [19-5] (ab150653) at 1/1000 dilution

Lane 1 : Human brain lysate

Lane 2 : HeLa cell lysate

Predicted band size: 86 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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