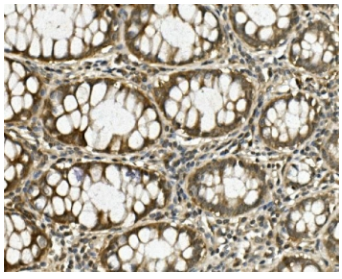
HGS Antibody / HRS / HGF-regulated tyrosine kinase substrate (RQ5980)

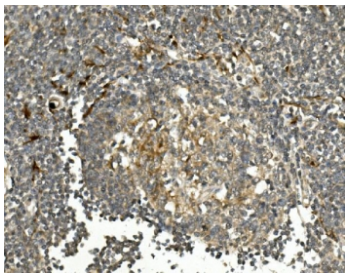
Catalog No.	Formulation	Size
RQ5980	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	O14964
Localization	Cytoplasm
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Immunofluorescence : 2-4ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml Immunoprecipitation : 2ug per 500ug of lysate
Limitations	This HGS antibody is available for research use only.



IHC staining of FFPE human rectal cancer with HGS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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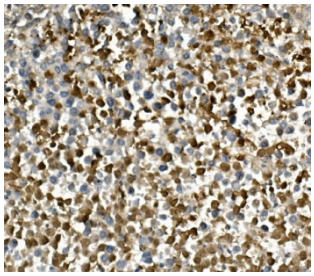
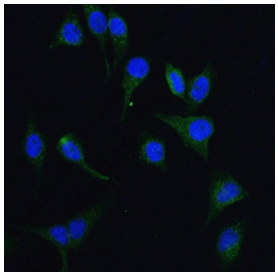
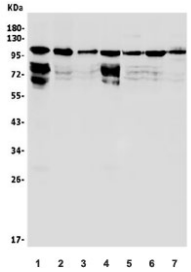


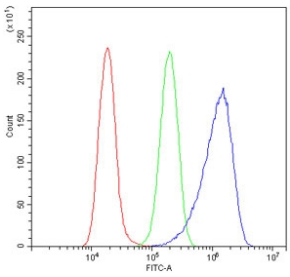
IHC staining of FFPE human testicular cancer with HGS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



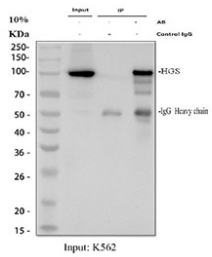
Immunofluorescent staining of FFPE human HeLa cells with HGS antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



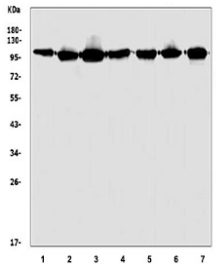
Western blot testing of 1) rat brain, 2) rat PC-12, 3) rat NRK, 4) mouse brain, 5) mouse HEPA1-6, 6) mouse NIH 3T3 and 7) mouse RAW264.7 lysate with HGS antibody. Predicted molecular weight ~86 kDa, commonly observed at 110-115 kDa.



Flow cytometry testing of human A549 cells with HGS antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HGS antibody.



Immunoprecipitation of HGS protein from 500ug of human K562 whole cell lysate with 2ug of HGS antibody.



Western blot testing of human 1) HeLa, 2) HEK293, 3) K562, 4) SK-O-V3, 5) PC-3, 6) A549 and 7) HepG2 cell lysate with HGS antibody. Predicted molecular weight ~86 kDa, commonly observed at 110-115 kDa.

Description

HRS (HGS, HGF-regulated tyrosine kinase substrate) is an endosomal protein that plays a critical role in vesicular trafficking and receptor downregulation. It is a key component of the ESCRT-0 complex, which mediates the sorting of ubiquitinated membrane proteins into multivesicular bodies for lysosomal degradation.

HRS regulates signaling pathways by controlling receptor turnover, including those for growth factors and cytokines. It is also involved in endosome maturation, membrane dynamics, and intracellular signaling. Dysregulation of HRS has been linked to cancer progression, immune regulation defects, and neurodegenerative disorders.

Using a high-quality HRS antibody enables sensitive detection in applications such as western blot, immunohistochemistry, and immunoprecipitation. An HRS antibody from NSJ Bioreagents ensures reproducibility and specificity for studies of vesicular transport, receptor signaling, and disease mechanisms. Selecting the right HRS antibody is crucial for generating consistent and accurate results.

Application Notes

Optimal dilution of the HGS antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids R3-D777) was used as the immunogen for the HGS antibody.

Storage

After reconstitution, the HGS antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.