

HGS Polyclonal Antibody

Catalog NumberPA5-27491

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Human
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 611 and 777 of Human HGS	Western Blot (WB)	1:1,000-1:10,000
		Immunocytochemistry (ICC/IF)	1:100-1:1,000
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunocytochemistry (ICC/IF)	See 1 publications below
Concentration	1 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

**Product specific information**

Recommended positive controls: H1299, HeLa, mouse brain, rat brain. Predicted reactivity: Mouse (85%), Rat (82%), Dog (92%), Rhesus Monkey (98%), Bovine (89%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

**Background/Target Information**

HGS is 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. It 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. HGS may concentrate ubiquitinated receptors within clathrin-coated regions. It is involved in down-regulation of receptor tyrosine kinase via multivesicular body (MVBs) when complexed with STAM. This complex binds ubiquitin and acts as sorting machinery that recognizes ubiquitinated receptors and transfers them to further sequential lysosomal sorting/trafficking processes. HGS may contribute to the efficient recruitment of SMADs to the activin receptor complex.

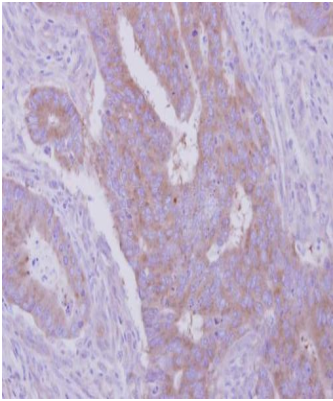
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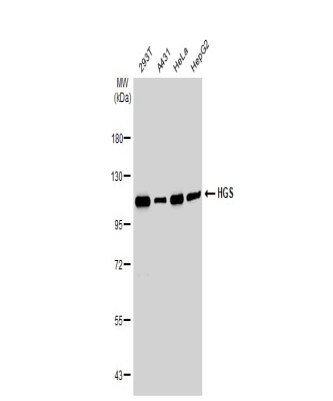
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Product Images For HGS Polyclonal Antibody



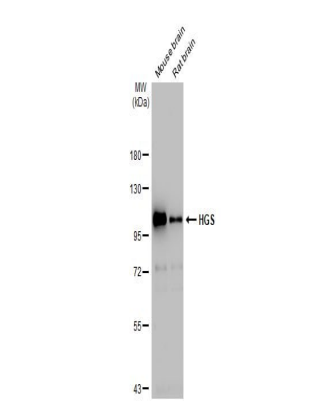
HGS Antibody (PA5-27491) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using HGS (Product # PA5-27491) antibody at 1:500 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



HGS Antibody (PA5-27491) in WB

Western Blot using HGS Polyclonal Antibody (Product # PA5-27491). Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with HGS Polyclonal Antibody (Product # PA5-27491) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



HGS Antibody (PA5-27491) in WB

Western Blot using HGS Polyclonal Antibody (Product # PA5-27491). Various tissue extracts (50 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with HGS Polyclonal Antibody (Product # PA5-27491) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

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PubMed References For HGS Polyclonal Antibody

1 Immunocytochemistry References

Species / Dilution	Summary
	PA5-27491 was used in Immunocytochemistry-immunoflourescence to conclude that during CHIKV infection, several ESCRT factors are recruited via HGS and are involved in viral genome replication and post-translational processing of viral proteins.
Human / Not Cited	<p>The Journal of biological chemistry ( 2020; 295: 7941)</p> <p><b>"Host ESCRT factors are recruited during chikungunya virus infection and are required for the intracellular viral replication cycle."</b></p> <p>Author(s):Torii S,Orba Y,Sasaki M,Tabata K,Wada Y,Carr M,Hobson-Peters J,Hall RA,Takada A,Fukuhara T,Matsuura Y, Hall WW,Sawa H</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1074/jbc.RA119.012303">http://dx.doi.org/10.1074/jbc.RA119.012303</a></p>

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