

For Research Use Only

HERC5 Recombinant monoclonal antibody

Catalog Number: 87166-1-RR



Basic Information

Catalog Number: 87166-1-RR	GenBank Accession Number: BC140716	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 51191	CloneNo.: 252294E6
Isotype: IgG	UNIPROT ID: Q9UII4	Recommended Dilutions: WB: 1:1000-1:4000 IF/ICC: 1:200-1:800
Immunogen Catalog Number: AG33511	Full Name: hect domain and RLD 5	
	Calculated MW: 1024 aa, 117 kDa	
	Observed MW: 117 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls: WB : HEK-293 cells, A549 cells, Jurkat cells, U-251 cells IF/ICC : HEK-293 cells,
Species Specificity: human	

Background Information

HERC5 (HECT and RLD domain-containing E3 ubiquitin ligase 5) is constitutively expressed at low or undetectable levels in most normal adult tissues and in a subset of cancer cell lines. It is an evolutionarily ancient restriction factor that inhibits the replication of diverse viruses. By virtue of its C-terminal HECT domain, HERC5 is the main cellular E3 ligase for conjugating ISG15 to substrates and localizes to polyribosomes to modify newly translated viral proteins, thereby disrupting key aspects of viral particle production. E3 ligase-independent antiviral activity has also been demonstrated towards HIV-1, where it inhibits the nuclear export of incompletely-spliced viral RNAs by a mechanism requiring its N-terminal RCC1-like domain (RLD). (PMID: 34572049)

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

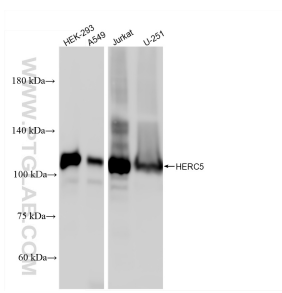
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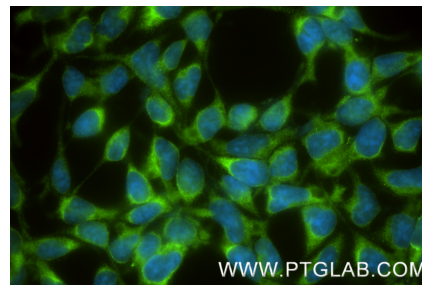
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87166-1-RR (HERC5 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using HERC5 antibody (87166-1-RR, Clone: 252294E6) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).