

HERC5 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12234**Specification**

HERC5 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	O9UII4
Other Accession	NM_016323 , NP_057407
Reactivity	Human, Bovine, Dog
Predicted	Human, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	117kDa KDa

HERC5 antibody - N-terminal region - Additional Information**Gene ID** 51191**Alias Symbol** CEB1, CEBP1**Other Names**

E3 ISG15--protein ligase HERC5, 6.3.2.-, Cyclin-E-binding protein 1, HECT domain and RCC1-like domain-containing protein 5, HERC5, CEB1, CEBP1

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-HERC5 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

HERC5 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

HERC5 antibody - N-terminal region - Protein Information**Name** HERC5**Synonyms** CEB1, CEBP1**Function**

Major E3 ligase for ISG15 conjugation (PubMed:26355087, PubMed:27564865, PubMed:27534820, PubMed:34572049, PubMed:37279284). Acts as a

positive regulator of innate antiviral response in cells induced by interferon. Functions as part of the ISGylation machinery that recognizes target proteins in a broad and relatively non-specific manner. Catalyzes ISGylation of IRF3 which results in sustained activation, it attenuates IRF3-PIN1 interaction, which antagonizes IRF3 ubiquitination and degradation, and boosts the antiviral response. Mediates ISGylation of the phosphatase PTEN leading to its degradation, thus alleviating its suppression of the PI3K-AKT signaling pathway and promoting the production of cytokines that facilitate bacterial clearance (PubMed:37279284). Interferes with the function of key viral structural proteins such as ebolavirus structural protein VP40 or HIV-1 protein GAG (PubMed:22093708, PubMed:34572049). Catalyzes ISGylation of influenza A viral NS1 which attenuates virulence; ISGylated NS1 fails to form homodimers and thus to interact with its RNA targets. Catalyzes ISGylation of papillomavirus type 16 L1 protein which results in dominant-negative effect on virus infectivity. Physically associated with polyribosomes, broadly modifies newly synthesized proteins in a cotranslational manner. In an interferon-stimulated cell, newly translated viral proteins are primary targets of ISG15. Promotes parkin/PRKN ubiquitin E3 ligase activity by suppressing the intramolecular interaction that maintains its autoinhibited conformation (PubMed:27534820).

Cellular Location

Cytoplasm, perinuclear region. Cytoplasm Note=Associated with the polyribosomes, probably via the 60S subunit

Tissue Location

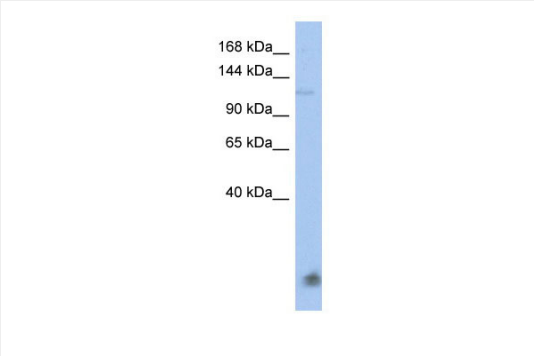
Expressed in testis and to a lesser degree in brain, ovary and placenta. Found in most tissues at low levels

HERC5 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HERC5 antibody - N-terminal region - Images



168 kDa
144 kDa
90 kDa
65 kDa
40 kDa

WB Suggested Anti-HERC5 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: HT1080 cell lysate

HERC5 antibody - N-terminal region - References

Salon, C., (2007) Oncogene 26(48), 6927-6936 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.