

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

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**HERC5 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">O9UII4</a>
Other Accession	<a href="#">NM_016323</a> , <a href="#">NP_057407</a>
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](http://www.uniprot.org/citations/26355087), PubMed: [27534820](http://www.uniprot.org/citations/27534820), PubMed: [27564865](http://www.uniprot.org/citations/27564865), PubMed: [34572049](http://www.uniprot.org/citations/34572049), PubMed: [37279284](http://www.uniprot.org/citations/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:<a href="http://www.uniprot.org/citations/37279284" target="\_blank">37279284</a>). Interferes with the function of key viral structural proteins such as ebolavirus structural protein VP40 or HIV-1 protein GAG (PubMed:<a href="http://www.uniprot.org/citations/22093708" target="\_blank">22093708</a>, PubMed:<a href="http://www.uniprot.org/citations/34572049" target="\_blank">34572049</a>). 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:<a href="http://www.uniprot.org/citations/27534820" target="\_blank">27534820</a>).

#### Cellular Location

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

#### Tissue Location

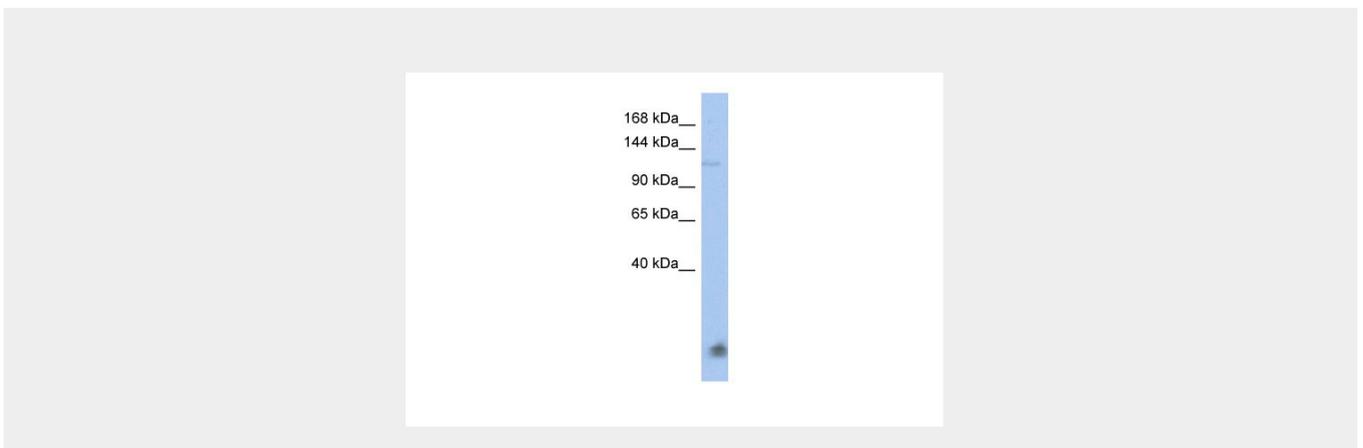
Expressed in testis and to a lesser degree in brain, ovary and placenta. Found in most tissues at low levels

### 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



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.