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Datasheet for ABIN968838

## anti-HERC2 antibody (AA 1781-1974)

1 Image

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### Overview

Quantity:	50 µg
Target:	HERC2
Binding Specificity:	AA 1781-1974
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HERC2 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	Mouse HERC2 aa. 1781-1974
Clone:	17-HERC2
Isotype:	IgG1
Cross-Reactivity:	Human, Rat (Rattus)
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li><li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li></ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

## Product Details

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chromatography.

## Target Details

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Target: HERC2

Alternative Name: HERC2 ([HERC2 Products](#))

Background: Prader-Willi and Angelman syndromes are genetic disorders that result from recombination between chromosome-specific low-copy repeats (duplicons). ERC2(rjs) is the transcript found in the duplicon for these disorders, and recessive mutation of HERC2 leads to a developmental syndrome in mice, referred to as runty jerky sterile (rjs) and juvenile development and fertility 2 (jdf2). HERC2 is homologous to the HERC1 and HERC3 HECT-domain containing proteins. The sequence of HERC2 includes three RCC1-like domains (RLD), a C-terminal ECT domain, and a ZZ-type zinc finger. The RCC1 repeats are similar to those found in cytochrome b5 and the HECT domain is found in E6-AP ubiquitin ligase. HERC2 may function as both a guanine nucleotide exchange factor and E3 biquitin ligase based on its conserved motifs and observation from mouse mutation studies. HERC2 mRNA is expressed highest in brain and testes, but is also found in heart, lung, liver, skeletal muscle, and kidney. Thus, HERC2 may function in protein trafficking and degradation pathways in various tissues.

Molecular Weight: 527 kDa

## Application Details

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Comment: Related Products: ABIN967389

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

## Handling

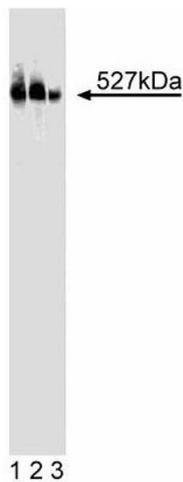
Storage Comment: Store undiluted at -20°C.

## Publications

Product cited in: Ji, Rebert, Joslin, Higgins, Schultz, Nicholls: "Structure of the highly conserved HERC2 gene and of multiple partially duplicated paralogs in human." in: **Genome research**, Vol. 10, Issue 3, pp. 319-29, (2000) ([PubMed](#)).

Lehman, Nakatsu, Ching, Bronson, Oakey, Keiper-Hrynko, Finger, Durham-Pierre, Horton, Newton, Lyon, Brilliant: "A very large protein with diverse functional motifs is deficient in rjs (runty, jerky, sterile) mice." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 95, Issue 16, pp. 9436-41, (1998) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Western blot analysis of HERC2 on mouse cerebellum. Lane 1: 250, lane 2:5000, land 3: 1:1000 dilution of HERC2.