bs-1519R **[Primary Antibody]**

E cadherin Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 999 **SWISS:** P12830

Target: E cadherin

Immunogen: KLH conjugated synthetic peptide derived from human E-cadherin: 841-882/882. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion protein is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function of this gene is thought to contribute to cancer progression by increasing proliferation, invasion, and/or metastasis. The ectodomain of this protein mediates bacterial adhesion to mammalian cells and the cytoplasmic domain is required for internalization. This gene is present in a gene cluster with other members of the cadherin family on chromosome 16. [provided by RefSeq, Nov 2015]

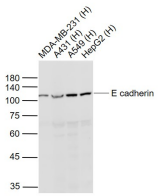
Applications: **WB** (1:500-2000)
Flow-Cyt (1μg/Test)

Reactivity: Human (predicted: Mouse, Rat, Pig, Cow, Chicken, Dog, Horse)

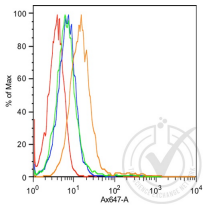
Predicted MW.: 90/97 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: MDA-MB-231 (Human) Cell Lysate at 30 ug Lane 2: A431 (Human) Cell Lysate at 30 ug Lane 3: A549 (Human) Cell Lysate at 30 ug Lane 4: HepG2 (Human) Cell Lysate at 30 ug Primary: Anti- E cadherin (bs-1519R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 125 kD Observed band size: 120 kD



Histogram of MCF7 cells stained with anti-E-cadherin (orange), isotype control antibody (green), secondary antibody only (blue) and unstained (red).

SELECTED CITATIONS

- **[IF=17.521]** Zhongjie Tang. et al. Overcoming the On-Target Toxicity in Antibody-Mediated Therapies via an Indirect Active Targeting Strategy. Advanced Science. 2023 Jan;:2206912 WB ;Mouse. 36683161
- **[IF=11.5]** Jiaxin Liu. et al. Microneedle-mediated biomimetic nanoparticles for targeted antioxidant and anti-inflammatory therapy in age-related macular degeneration. J CONTROL RELEASE. 2025 Aug;384:113908 WB ;Human. 40451555

- **[IF=11.161]** Zhipeng Jiang. et al. EIF4A3-induced circ_0084615 contributes to the progression of colorectal cancer via miR-599/ONECUT2 pathway. J Exp Clin Canc Res. 2021 Dec;40(1):1-15 WB,IHC ;Human. 34253241
- **[IF=10.2]** Zhengjun Li. et al. An anti-inflammatory and anti-fibrotic Janus hydrogel for preventing postoperative peritoneal adhesion. MATER TODAY BIO. 2025 Mar;:101637 WB ;Human. 40151614
- **[IF=9.584]** Zheng, Bingxin. et al. Siglec-15-induced autophagy promotes invasion and metastasis of human osteosarcoma cells by activating the epithelial–mesenchymal transition and Beclin-1/ATG14 pathway. CELL BIOSCI. 2022 Dec;12(1):1-15 WB ;Human. 35842729