

pan-Cadherin Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50319

Clone# BP6296

Predicted Molecular Wt: 97kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P12830/P19022/P22223/P55283

Background:

Cadherins are a superfamily of transmembrane glycoproteins that contain cadherin repeats of approximately 100 residues in their extracellular domain. Cadherins mediate calcium-dependent cell-cell adhesion and play critical roles in normal tissue development. The classic cadherin subfamily includes N-, P-, R- and E-cadherins, as well as about ten other members that are found in adherens junctions, a cellular structure near the apical surface of polarized epithelial cells.

Cadherins are expressed in a number of normal tissues, including the stomach, esophagus and kidney. Cadherins are expressed in various types of cancer tissues, including the breast cancer, cervical carcinoma and gastric cancer.

Investigators consider that E-cadherin is an active suppressor of invasion and growth of many epithelial cancers. Research studies indicate that cancer cells have upregulated expression of N-cadherin and downregulate expression of E-cadherin. This change in cadherin expression is called the "cadherin switch". N-cadherin cooperates with the FGF receptor, leading to overexpression of MMP-9 and cellular invasion. Investigators have also demonstrated that expression of P-cadherin, which is normally present in epithelial cells, is also altered in ovarian and other human cancers.

Subcellular location:

Membrane and Cytoplasmic

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to BioLynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200


Background References:

- Yamaoka-Tojo, M. (2006) Arterioscler Thromb Vasc Biol 26, 1991-7.
- Wheelock, M.J. (2003) Annu Rev Cell Dev Biol 19, 207-35.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of esophagus labelling pan-Cadherin with BP6296.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.