NeoBiotechnologies, Inc.
2 Union Square
Union City, CA 94587
Tel: 510-376-5603
Email: contact@NeoBiotechnologies.com , orders@NeoBiotechnologies.com
Website: www.NeoBiotechnologies.com

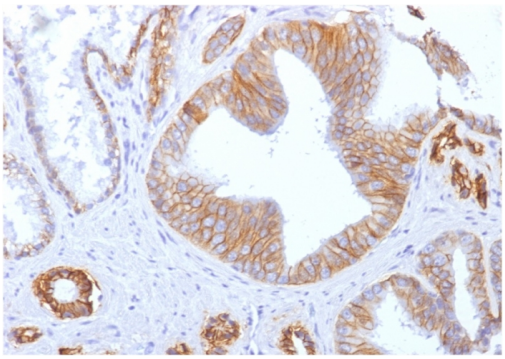
E-Cadherin/ CD324 (Intercellular Junction Marker)

Mouse Monoclonal Antibody [Clone SPM471]

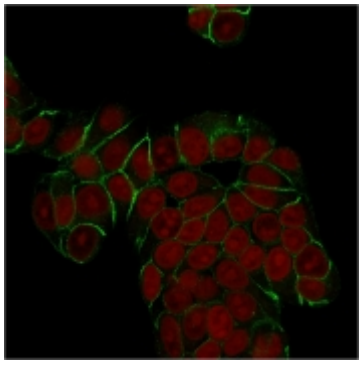
Catalog No	Format	Size	Price (USD)
999-MSM5XX-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
999-MSM5XX-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
999-MSM5XX-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

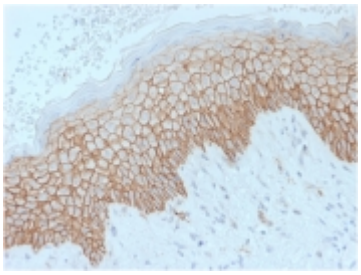
Human Entrez Gene ID	999
Human SwissProt	P12830
Human Unigene	461086
Human Gene Symbol	CDH1
Human Chromosome Location	16q22.1
Synonyms	Arc 1; cadherin 1 type 1 E-cadherin; Cadherin1; CAM 120/80; CD324; CDHE; E-Cad/CTF3; ECAD; Epithelial cadherin; epithelial calcium dependent adhesion protein; Liver cell adhesion molecule (LCAM); Uvomorulin (UVO)

Immunogen	Recombinant human E-Cadherin protein
Host / Ig Isotype	Mouse / IgG1, kappa
Mol. Weight of Antigen	120-80kDa (Mature); 135kDa (Precursor)
Cellular Localization	Cell surface.
Species Reactivity	Human. Mouse.
Positive Control	LS174T, Raji or SK-BR3 cells. Human prostate or colon carcinomas.



Formalin-fixed, paraffin-embedded human prostate carcinoma stained with E-Cadherin Mouse Monoclonal Antibody(SPM471).





Specificity & Comments

Recognizes a protein of 120-80kDa, identified as E-cadherin. Cadherins comprise a family of Ca2+-dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of tissue structure and morphogenesis. The classical cadherins, E-, N- and P-cadherin, consist of large extracellular domains characterized by a series of five homologous NH2 terminal repeats. The relatively short intracellular domains interact with a variety of cytoplasmic proteins, such as Î²-catenin, to regulate cadherin function. E-cadherin plays an important role in epithelial cell adhesion. A decreased expression of E-cadherin is associated with metastatic potential and poor prognosis in breast cancer, prostate and esophageal cancer. In combination with p120 Catenin, it is useful for the differentiation between ductal (E-cadherin +) and lobular (E-cadherin -) breast carcinomas. It may also help in diagnosis of mesothelioma.

Known Applications & Suggested Dilutions

Flow Cytometry (1-2ug/million cells)
Immunofluorescence (1-2ug/ml)
Western Blot (1-2ug/ml)
Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)
(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes)
Optimal dilution for a specific application should be determined.

Key References

1. Umbas, R., et al. 1992. Expression of the cellular adhesion molecule E-cadherin is reduced or absent in high-grade prostate cancer. Cancer Res. 52: 5104-5109.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

Warranty

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.