

Product datasheet for **BM4063**

E Cadherin (CDH1) Mouse Monoclonal Antibody [Clone ID: 67A4.2.1]

Product data:

| | |
|------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 67A4.2.1 |
| Applications: | FC, IHC |
| Recommended Dilution: | Suitable for Immunohistochemistry (frozen sections: 4-8 µg/ml, 1/50-1:100) and FACS. Suggested positive control: Human tonsil. Does not react on routinely processed paraffin sections. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Breast carcinoma cell line T47D |
| Formulation: | PBS pH 7.2 containing 10 mg/ml BSA as stabilizer and 0.09% sodium azide as preservative. State: Purified State: Lyophilized purified Ig fraction |
| Reconstitution Method: | Restore with 0.5 ml distilled water. For best results, dilute in TBS or other phosphate-free buffer containing 10 mM Ca ²⁺ . |
| Concentration: | 0.4 mg/ml |
| Purification: | Protein A chromatography |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: One year from despatch. |
| Gene Name: | cadherin 1 |
| Database Link: | Entrez Gene 999 Human P12830 |



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Background:

E-Cadherin, also called L-CAM (Liver Cell Adhesion Molecule) is an epithelial cell adhesion molecule and plays an important role in the formation of cell-cell contacts in epithelia irrespective of their origin as ecto-, meso- or endodermal tissue. This early adhesion event between epithelial cells is a prerequisite for the assembly of all elements of the junctional complex and is as such important in maintaining epithelial integrity. Over 90% of malignancies are carcinomas. One of the prerequisites for the release of carcinoma cells from the primary site might be a defect in intercellular adhesion mediated by the absence of E-cadherin expression. Therefore, the expression of E-cadherin might be an important parameter for the determination of the invasive potential of epithelial neoplasms, and for the transition of a benign to a malignant neoplasm.

Synonyms:

Epithelial cadherin, E-cadherin, Uvomorulin, CAM 120/80, CDH1, CDHE, UVO

Note:

Protocol: **Protocol with frozen, ice-cold acetone-fixed sections:**

The whole procedure is performed at room temperature

1. Wash in PBS
2. Block endogenous peroxidase
3. Wash in PBS
4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
6. Wash in PBS
7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
8. Wash in PBS
9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
10. Wash in PBS
11. Counterstain with Mayer's hemalum