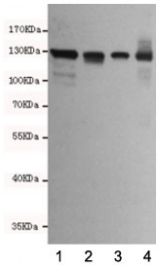
E-cadherin Antibody for WB / Developmental Epithelial Marker Western Blot Antibody [clone 6B10-F4-G10] (F54046)

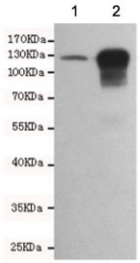
Catalog No.	Formulation	Size
F54046-0.1ML	In PBS with 50% glycerol and 0.03% ProClin 300	0.1 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	6B10-F4-G10
Purity	Protein G affinity
UniProt	P12830
Applications	Western Blot : 1:1000
Limitations	This E-cadherin Antibody for WB / Developmental Epithelial Marker Western Blot Antibody is available for research use only.



E-cadherin Antibody for WB. Western blot analysis of Cadherin 1 / CDH1 expression in human cell lysates: 1) T47D, 2) HCT116, 3) MDA-MB-468, and 4) Caco-2 using clone 6B10-F4-G10 antibody at 1:2000, showing bands near the predicted molecular weight of E-cadherin. E-cadherin is synthesized as a precursor and undergoes glycosylation, resulting in an apparent molecular weight typically observed between approximately 80-120 kDa, with the precursor form near 135 kDa. The detected bands are consistent with mature glycosylated E-cadherin across epithelial-derived cell lines, with variation in band intensity reflecting differences in expression levels.



E-cadherin Antibody for WB in mouse embryo and human HCT116 cells. Western blot analysis of Cadherin 1 / CDH1 expression in 1) mouse embryo and 2) human HCT116 cell lysates using clone 6B10-F4-G10 antibody, showing bands near the predicted molecular weight of E-cadherin. E-cadherin is synthesized as a precursor and undergoes glycosylation, resulting in an apparent molecular weight typically observed between approximately 80-120 kDa, with the precursor form near 135 kDa. The detected bands are consistent with mature glycosylated E-cadherin, with stronger signal in HCT116 cells reflecting higher epithelial expression.

Description

E-cadherin (CDH1) is a key epithelial adhesion protein that plays a fundamental role in tissue organization, morphogenesis, and maintenance of epithelial identity across developmental stages. E-cadherin Antibody for WB / Developmental Epithelial Marker Western Blot Antibody (clone 6B10-F4-G10) enables detection of this protein in both human cell line and mouse embryo lysates, supporting analysis of epithelial marker expression across species and biological contexts. E-cadherin is also referred to as Cadherin 1 antibody and is essential for establishment and maintenance of epithelial structure during development.

Western blot detection of E-cadherin in mouse embryo samples provides a distinct developmental perspective, as CDH1 expression is critical for early tissue organization and formation of epithelial layers. During embryogenesis, E-cadherin mediates cell-cell adhesion required for compaction, tissue patterning, and maintenance of organized cellular structures. Detection in embryo lysates therefore supports studies focused on developmental biology and epithelial lineage establishment.

The inclusion of both human cell line and mouse embryo samples allows comparison of E-cadherin expression across experimental systems, bridging in vitro models with developmental tissue contexts. E-cadherin Antibody for WB is particularly useful in studies examining how epithelial characteristics are maintained or altered across different biological conditions and stages.

At the molecular level, E-cadherin interacts with catenin proteins and cytoskeletal elements to coordinate adhesion, signaling, and structural organization. These interactions are essential not only in mature epithelial tissues but also during developmental processes that require precise regulation of cell positioning and tissue architecture. Western blot analysis using E-cadherin antibody supports investigation of these pathways and provides insight into the role of adhesion proteins in development and differentiation.

The mouse monoclonal clone 6B10-F4-G10 antibody supports reliable detection of E-cadherin in western blot workflows and is well suited for studies that require cross-species compatibility and developmental relevance. This E-cadherin antibody is particularly effective for research focused on epithelial development, morphogenesis, and comparative protein expression across biological systems.

This antibody is part of the CDH1 antibody collection, where multiple E-cadherin antibody formats and applications are available for studying epithelial adhesion and cancer progression.

Application Notes

The stated application concentrations are suggested starting points. Titration of the E-cadherin Antibody for WB / Developmental Epithelial Marker Western Blot Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Storage

Store the E-Cadherin antibody at -20oC.

Alternate Names

CDH1 antibody, E-cadherin western blot antibody, Cadherin 1 WB antibody, developmental epithelial marker antibody, embryo epithelial protein antibody