

AM00010PU-N

Monoclonal Antibody to CD324 / Cadherin-1 (incl. pos. control) - Purified

Alternate names:	CAM 120/80, CDH1, CDHE, E-cadherin, Epithelial cadherin, UVO, Uvomorulin
Quantity:	0.1 mg
Background:	Cadherins are a family of transmembrane glycoproteins that play a key role in calcium-dependent cell-cell adhesion. Several members of the cadherin family have been identified so far, including E-(epithelial), P-(placental), N-(neuronal), and M- muscle) cadherin. E-cadherin is expressed in most epithelial tissues.
Uniprot ID:	P12830
NCBI:	NP_004351.1
GeneID:	999
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	22F8
Immunogen:	Peptide conjugated to hemocyanin. Epitope: cytoplasmic domain.
Format:	State: Lyophilized Ig fraction Purification: The antibody was purified from serum-free cell culture supernatant by subsequent ultrafiltration and size exclusion chromatography. Buffer System: 2 x PBS / 0.09% sodium azide / PEG and sucrose Reconstitution: Restore with 1 ml H ₂ O (15 min, RT).
Applications:	Immunoblotting: 0.5 µg/ml for HRPO/ECL detection. Recommended buffer: Casein/Tween 20 based blocking and blot incubation buffer. Use cell lysate from untreated A431 cells as positive control. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody specifically recognizes E-cadherin at 124 kDa. Species: Human. Other species not tested.
Add. Information:	Cell lysate from untreated A431 cells as positive control is supplied with this product.
Storage:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. Avoid repeated freezing and thawing.
Protocols:	Positive control provided: Control cell lysate A 431 untreated Format: Lyophilized cell lysate from serum starved A431 cells. Reconstitute by addition of 200 µl H ₂ O. After complete solubilization add 200 µl 2x

SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Applications: The positive control cell lysate is recommended for immunoblot applications.

20 ml of positive control cell lysate correspond to ca. 20.000 cells.

Use 20 µl / lane (mini gel) for HRPO/ECL detection of the target proteins.

Please note:

The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.

Storage: In aliquots at -20°C. Avoid repeated freezing and thawing.

Pictures:

Detection of endogenous E - cadherin
Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab 22F8 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). lane 1: A431; lane 2: SW480; lane 3: SW620; lane 4: HT29; lane 5: MCF-7; lane 6: MDA-MB 231; lane 7: T47D

