

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

<b>Alternate names:</b>	CAM 120/80, CDH1, CDHE, E-cadherin, Epithelial cadherin, UVO, Uvomorulin
<b>Catalog No.:</b>	AM00010PU-N
<b>Quantity:</b>	0.1 mg
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P12830</a>
<b>NCBI:</b>	<a href="#">NP_004351.1</a>
<b>GeneID:</b>	<a href="#">999</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	22F8
<b>Immunogen:</b>	Peptide conjugated to hemocyanin. Epitope: cytoplasmic domain.
<b>Format:</b>	<b>State:</b> Lyophilized Ig fraction <b>Purification:</b> The antibody was purified from serum-free cell culture supernatant by subsequent ultrafiltration and size exclusion chromatography. <b>Buffer System:</b> 2 x PBS / 0.09% sodium azide / PEG and sucrose <b>Reconstitution:</b> Restore with 1 ml H <sub>2</sub> O (15 min, RT).
<b>Applications:</b>	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.
<b>Specificity:</b>	This antibody specifically recognizes E-cadherin at 124 kDa. <b>Species:</b> Human. Other species not tested.
<b>Add. Information:</b>	Cell lysate from untreated A431 cells as positive control is supplied with this product.
<b>Storage:</b>	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.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**  
Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

**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<sub>2</sub>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

