## E-Cadherin (24E10) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures

Applications: W, W-S, IHC-Bond, IHC-P, IF-F, IF-IC, FC-FP	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 135	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P12830	<b>Entrez-Gene Id</b> 999
Product Usage		Application			Dilution	
Information		Western Blotting			1:100	00
		Simple Western™			1:10 - 1:50	
		IHC Leica Bond			1:400	0 - 1:1600
		Immunohistochemist	ry (Paraffin)		1:400	)
		Immunofluorescence (Frozen)			1:1600	
		Immunofluorescence (Immunocytochemistry)			1:1600	
		Flow Cytometry (Fixed	d/Permeabilized)		1:100	0 - 1:400
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier-free (BSA	and Azide Free) ve	rsion of this product see	product #96743.	
Specificity/Sensitivity		E-Cadherin (24E10) Rabbit mAb detects endogenous levels of total E-cadherin protein. The antibody does not cross-react with related family members, such as N-cadherin.				
Species predicted to react based on 100% sequence homology		Bovine, Dog, Pig				
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro780 of human E-cadherin protein.				
Background		Cadherins are a superfamily of transmembrane glycoproteins that contain cadherin repeats of approximately 100 residues in their extracellular domain. Cadherins mediate calcium-dependent cell-cell adhesion and play critical roles in normal tissue development (1). The classic cadherin subfamily includes N-, P-, R-, B-, and E-cadherins, as well as about ten other members that are found in adherens junctions, a cellular structure near the apical surface of polarized epithelial cells. The cytoplasmic domain of classical cadherins interacts with β-catenin, γ-catenin (also called plakoglobin), and p120 catenin. β-catenin and γ-catenin associate with α-catenin, which links the cadherin-catenin complex to the actin cytoskeleton (1,2). While β- and γ-catenin play structural roles in the junctional complex, p120				

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## **Background References**

- 1. Wheelock, M.J. and Johnson, K.R. (2003) Annu Rev Cell Dev Biol 19, 207-35.
- 2. Christofori, G. (2003) *EMBO J* 22, 2318-23.
- 3. Hazan, R.B. et al. (2004) Ann N Y Acad Sci 1014, 155-63.
- 4. Bryant, D.M. and Stow, J.L. (2004) Trends Cell Biol 14, 427-34.
- 5. Rabascio, C. et al. (2004) Cancer Res 64, 4373-7.
- 6. Yamaoka-Tojo, M. et al. (2006) Arterioscler Thromb Vasc Biol 26, 1991-7.
- 7. Patel, I.S. et al. (2003) *Int J Cancer* 106, 172-7.
- 8. Sanders, D.S. et al. (2000) *J Pathol* 190, 526-30.

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

W: Western Blotting W-S: Simple Western™ IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry **Applications Key** 

(Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry) FC-

**FP:** Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key** H: Human M: Mouse

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