E-Cadherin (24E10) Rabbit mAb (Alexa Fluor® 594 Conjugate)
 Image: Cell Signaling TECHNOLOGY\*

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

Applications: Reactivit IF-IC H M	y: Sensitivity: Source/Isotype: Endogenous Rabbit IgG	UniProt ID:Entrez-Gene Id:#P12830999
Product Usage Information	Application Immunofluorescence (Immunocytochemistry)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 antibody. Protect from light. Do not freeze.	mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	E-Cadherin (24E10) Rabbit mAb (Alexa Fluor <sup>®</sup> 594 Conjugate) recognizes 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 / Purification	Monoclonal antibody is produced by immunizing animals with sequence surrounding Pro780 of human E-cadherin protein.	a synthetic peptide corresponding to the
Product Description	This Cell Signaling Technology antibody is conjugated to Alex- house for immunofluorescent analysis in human cells. This an species cross-reactivity as the unconjugated E-Cadherin (24E	tibody is expected to exhibit the same
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 $\beta$ -catenin, $\gamma$ -catenin (also called plakoglobin), and p120 catenin. $\beta$ -catenin and $\gamma$ -catenin associate with $\alpha$ -catenin, which links the cadherin-catenin complex to the actin cytoskeleton (1,2). While $\beta$ - and $\gamma$ -catenin play structural roles in the junctional complex, p120 regulates cadherin adhesive activity and trafficking (1-4). Investigators consider E-cadherin an active suppressor of invasion and growth of many epithelial cancers (1-3). Research studies indicate that cancer cells have upregulated N-cadherin in addition to loss of E-cadherin. This change in cadherin expression is called the "cadherin switch." N-cadherin cooperates with the FGF receptor, leading to overexpression of MMP-9 and cellular invasion (3). Research studies have shown that in endothelial cells, VE-cadherin signaling, expression, and localization correlate with vascular permeability and tumor angiogenesis (5,6). Investigators have also demonstrated that expression of P-cadherin, which is normally present in epithelial cells, is also altered in ovarian and other human cancers (7,8).	
Background References	<ol> <li>Wheelock, M.J. and Johnson, K.R. (2003) <i>Annu Rev Cell D</i></li> <li>Christofori, G. (2003) <i>EMBO J</i> 22, 2318-23.</li> <li>Hazan, R.B. et al. (2004) <i>Ann N Y Acad Sci</i> 1014, 155-63.</li> <li>Bryant, D.M. and Stow, J.L. (2004) <i>Trends Cell Biol</i> 14, 427</li> <li>Rabascio, C. et al. (2004) <i>Cancer Res</i> 64, 4373-7.</li> <li>Yamaoka-Tojo, M. et al. (2006) <i>Arterioscler Thromb Vasc Bi</i></li> <li>Patel, I.S. et al. (2003) <i>Int J Cancer</i> 106, 172-7.</li> <li>Sanders, D.S. et al. (2000) <i>J Pathol</i> 190, 526-30.</li> </ol>	-34.

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

1/14/24, 11:32 AM E-Cadherin (24E10) Rabbit mAb (Alexa Fluor® 594 Conjugate) (#7687) Datasheet Without Images Cell S		
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected	
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