

40623

CD6 (E9Y7Y) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Trademarks and Patents

Applications: W, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 100-140	Source/Isotype: Rabbit IgG	UniProt ID: #P30203	Entrez-Gene Id: 923
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:200	
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) version of this product see product #36549.				
Specificity/Sensitivity		CD6 (E9Y7Y) Rabbit mAb recognizes endogenous levels of total CD6 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human CD6 protein.				
Background		T cell differentiation antigen CD6 is a cell adhesion molecule expressed on immature thymocytes and mature T cells, and has also been detected on a subset of B cells and NK cells within the immune system (1-4). CD6 mediates cell-cell interactions through its binding partner CD166/ALCAM (2), and contributes to the formation and maturation of the immunological synapse (3,4). CD6 functions as a costimulatory receptor, promoting T cell activation and proliferation through the TCR/CD3 complex signaling cascade (3-6). Studies have shown CD6 can be glycosylated (7), hyperphosphorylated on serine and threonine residues (8), and phosphorylated on tyrosine residues (6,9), each of which can differentially affect the function and signaling of this molecule. CD6 also functions as a calcium-dependent pattern receptor that binds and aggregates Gram-positive and Gram-negative bacteria. In response to lipopolysaccharide, CD6 mediates activation of the inflammatory response and secretion of pro-inflammatory cytokines (10).				
Background References		1. Bowen, M.A. et al. (1997) <i>J Immunol</i> 158, 1149-56. 2. Hassan, N.J. et al. (2004) <i>Eur J Immunol</i> 34, 930-40. 3. Gimferrer, I. et al. (2004) <i>J Immunol</i> 173, 2262-70. 4. Zimmerman, A.W. et al. (2006) <i>Blood</i> 107, 3212-20. 5. Roncagalli, R. et al. (2014) <i>Nat Immunol</i> 15, 384-392. 6. Hassan, N.J. et al. (2006) <i>Mol Cell Biol</i> 26, 6727-38. 7. Escoda-Ferran, C. et al. (2014) <i>FEBS Lett</i> 588, 2805-13. 8. Swack, J.A. et al. (1991) <i>J Biol Chem</i> 266, 7137-43. 9. Wee, S. et al. (1993) <i>J Exp Med</i> 177, 219-23. 10. Sarrias, M.R. et al. (2007) <i>Proc Natl Acad Sci USA</i> 104, 11724-9.				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
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.				
Applications Key		W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)				
Cross-Reactivity Key		H: Human				

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. SignalStain is a registered trademark of Cell Signaling Technology, Inc.

more information.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.