e at -20C	TMOD1 Antibody		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
63		Support:	877-678-TECH (8324)	
#60763		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers	Massachusetts   01923   USA	

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 45	Source: Rabbit	UniProt ID: #P28289	Entrez-Gene Id: 7111		
Product Usage Information		plication estern Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		TMOD1 Antibody recognizes endogenous levels of total TMOD1 protein. The antibody is not predicted to cross-react with other TMOD protein family members (TMOD2-4).						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro353 of human TMOD1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Tropomodulin-1 (TMOD1) belongs to a conserved family of cytoskeletal proteins (TMOD1-4) that play an important role in modulating actin cytoskeleton dynamics. TMOD proteins function as actin capping proteins, which stabilize actin filaments by inhibiting both elongation and depolymerization (1). While many proteins have been identified that cap the rapidly growing barbed end of actin filaments, TMODs are the only proteins thus far identified that cap the slowly growing pointed end (2). A research study in triple-negative breast cancer cells identified TMOD1 as a target of NF-κB signaling, and showed that increased TMOD1 expression was associated with enhanced tumor growth in a mouse xenograft model (3). Molecular expression of <i>TMOD1</i> was also identified as part of a unique gene expression signature that could discriminate ALK-negative anaplastic large-cell lymphoma from other malignancy subtypes (4).						
Background Refe	2. R 3. It	<ol> <li>Fischer, R.S. and Fowler, V.M. (2003) <i>Trends Cell Biol</i> 13, 593-601.</li> <li>Rao, J.N. et al. (2014) <i>Science</i> 345, 463-7.</li> <li>Ito-Kureha, T. et al. (2015) <i>Cancer Res</i> 75, 62-72.</li> <li>Agnelli, L. et al. (2012) <i>Blood</i> 120, 1274-81.</li> </ol>						
Species Reactivit	y Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buf		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	WB	Western Blotting						
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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tps://www.cellsignal.com/datasheet.jsp?productId=60763&images=0&protocol=0								

## TMOD1 Antibody (#60763) Datasheet Without Images Cell Signaling Technology

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