

Phospho-TPOR (Tyr626) (D3H7B) Rabbit



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 85-90	Source/Isotype: Rabbit IgG	UniProt ID: #P40238	Entrez-Gene Id 4352
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
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.				
Specificity/Sensitivity		Phospho-TPOR (Y626) (D3H7B) Rabbit mAb recognizes endogenous levels of TPOR protein only when phosphorylated at Tyr626. This antibody cross-reacts with a 30 kDa protein of unknown origin. This antibody may cross-react with some tyrosine-phosphorylated proteins including the EGF Receptor, ROS1, and FLT3.				
Species prediction based on 100% homology		Mouse, Rat, Monkey,	Bovine			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr626 of human TPOR protein.				
Background		Thrombopoietin receptor (TPOR, c-Mpl) is a hematopoietic receptor that binds the growth factor, thrombopoietin (TPO), responsible for regulation of platelet production (1-3). Expression of TPOR by megakaryocytes is required for megakaryocyte growth and development (4). TPOR is also expressed by hematopoietic stem cells and is required for stem cell maintenance and expansion (5). Studies show that mice lacking either TPOR or TPO have severely reduced numbers of platelets and megakaryocytes as well as decreased numbers of other hematopoietic lineages (4,5). Binding of TPO to TPOR induces receptor dimerization that leads to phosphorylation and activation of the tyrosine kinase Jak2. Activated Jak2 associates with the cytoplasmic domain of TPOR (6,7) and phosphorylates TPOR at Tyr626 and Tyr631 (8). These phosphorylated tyrosine residues provide docking sites for downstream signaling molecules including Stat3, Stat5, Shc, and SHIP (7-9).				
Background References			ıl. (1994) <i>Nature</i> 369, 5 1994) <i>Nature</i> 369, 5 1994) <i>Science</i> 265, [*] al. (1996) <i>Blood</i> 87, [*] al. (1995) <i>EMBO J</i> 14 II. (1995) <i>J Biol Chen</i> I Kaushansky, K. (19 1995) <i>Proc Natl Aca</i>	.71-4. 1445-7. 2162-70. , 5569-78. 1 270, 4979-82. 97) <i>Proc Natl Acad Sci U</i> d <i>Sci U S A</i> 92, 5292-6.	<i>S A</i> 94, 2350-5.	
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X				

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

Cross-Reactivity Key

H: Human

Trademarks and Patents

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

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

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.