

## Vinculin (E1E9V) XP<sup>®</sup> Rabbit mAb (HRP Conjugate)



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

Applications: W	Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 124	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P18206-2	Entrez-Gene Id: 7414
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Vinculin (E1E9V) XP <sup>®</sup> Rabbit mAb (HRP Conjugate) recognizes endogenous levels of total vinculin protein. This antibody also reacts with metavinculin, a 145 kDa splice variant of vinculin.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human vinculin protein.				
Description		This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Vinculin (E1E9V) XP <sup>®</sup> Rabbit mAb #13901.				
Background		embryonic developme short, flexible proline- domains of vinculin in translocates to focal a membrane and regula subsequent phosphor Src kinases weakens t number of other prote interaction and initiate deficiencies are assoc a possible role in meta	ent (1-4). Three stru rich region, and a c teract to form a clo dhesions, where it ation of cell migrati ylation of vinculin a he head-tail interac eins, including talin es the conformation iated with a decrea astatic growth (7,8)	s an important role in the ctural vinculin domains tarboxy-terminal tail (1), used conformation. The clist thought to be involved on (2). Phospholipid binds Ser1033 and Ser1045 tion (5,6). This change in α-actinin, and paxillin, and change from the inaction in cell adhesion and a training in the inaction of the inac	include an amino-ti In the inactive station open and active for d in anchoring F-ac ding to the tail dom by PKC-α and Tyr10 n vinculin allows the which disrupts the ctive to active state an increase in cell medemonstrated relat	erminal head, a e, the head and tail m of vinculin tin to the ain and 0 and Tyr1065 by e binding of a head-tail (2,4). Vinculin onship between
Background References		2. Humphries, J.D. et a 3. Witt, S. et al. (2004) 4. Xu, W. et al. (1998) A 5. Ziegler, W.H. et al. (200 7. Rodríguez Fernándo 8. Samuels, M. et al. (1	al. (2004) <i>Nature</i> 427, 171-5. , J.D. et al. (2007) <i>J Cell Biol</i> 179, 1043-57. l. (2004) <i>J Biol Chem</i> 279, 31533-43 (1998) <i>Development</i> 125, 327-37. l. et al. (2002) <i>J Biol Chem</i> 277, 7396-404. t al. (2004) <i>Mol Biol Cell</i> 15, 4234-47. Fernández, J.L. et al. (1993) <i>J Cell Biol</i> 122, 1285-94. l. et al. (1993) <i>J Cell Biol</i> 121, 909-21. t al. (2010) <i>Cancer Invest</i> 28, 127-34.			

**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

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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