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#8467

Phospho-Zyxin (Ser142/143) (D1E8) Rabbit mAb

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

Applications: W, IP	Reactivity: H M R Mk Dg	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #Q15942	Entrez-Gene Id: 7791
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

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.

Specificity/Sensitivity

Phospho-Zyxin (Ser142/143) (D1E8) Rabbit mAb recognizes endogenous levels of zyxin protein only when phosphorylated at Ser142 and Ser143.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser142 and Ser143 of human zyxin protein.

Background

The zyxin family of proteins includes LIMD1, ajuba, trip6 and zyxin, each of which contains three LIM domains at the carboxy-terminus. Zyxin family members associate with the actin cytoskeleton and are components of both the cell-cell junction adhesive complex and the integrin-mediated adhesive complex. They shuttle in and out of the nucleus where they may function in transcriptional activation (1).

Zyxin is involved in the regulation of mechanical force-induced actin polymerization at focal adhesions (2), and in regulation of adhesion and migration, possibly through recruitment of Ena/VASP proteins to focal adhesions (3). Zyxin interacts with and may regulate the function of the tumor suppressor myopodin, which inhibits tumor growth and metastasis (4).

Background References

1. Wang, Y. and Gilmore, T.D. (2003) *Biochim Biophys Acta* 1593, 115-20.
2. Hirata, H. et al. (2008) *J Cell Sci* 121, 2795-804.
3. Hoffman, L.M. et al. (2006) *J Cell Biol* 172, 771-82.
4. Yu, Y.P. and Luo, J.H. (2006) *Cancer Res* 66, 7414-9.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey **Dg:** Dog

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