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Store at -20C
#4655

TESK1 (D49D4) Rabbit mAb

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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 68	Source/Isotype: Rabbit IgG	UniProt ID: #Q15569	Entrez-Gene Id: 7016
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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

TESK1 (D49D4) Rabbit mAb detects endogenous levels of total TESK1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to carboxy terminal residues of human TESK1 protein.

Background

Testis-specific kinase 1 (TESK1) is a LIMK-related protein kinase originally identified to be expressed highly in testes and subsequently shown to be expressed in a wide variety of tissues and cell types (1-4). TESK1 phosphorylates the actin severing protein cofilin at Ser3, inactivating cofilin and thus regulating the organization of the actin cytoskeleton (2). Integrin signaling activates TESK1 activity and leads to stress fiber formation and cell spreading (2,5,6). TESK1 is involved in regulation of ERK signaling through its interaction with Spry2 (7) and regulation of cell spreading through its interaction with the focal adhesion protein actopaxin/α-parvin (5).

Background References

1. Toshima, J. et al. (1995) *J Biol Chem* 270, 31331-7.
2. Toshima, J. et al. (2001) *Mol Biol Cell* 12, 1131-45.
3. Toshima, J. et al. (2001) *J Biol Chem* 276, 31449-58.
4. Toshima, J. et al. (2001) *Biochem Biophys Res Commun* 286, 566-73.
5. LaLonde, D.P. et al. (2005) *J Biol Chem* 280, 21680-8.
6. Tsumura, Y. et al. (2005) *Biochem J* 387, 627-37.
7. Chandramouli, S. et al. (2008) *J Biol Chem* 283, 1679-91.

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 nonfat dry milk, 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

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