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TEAD2 Antibody

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit	UniProt ID: #Q15562	Entrez-Gene Id: 8463
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Product Usage Information

Application

Western 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

TEAD2 Antibody recognizes endogenous levels of total TEAD2 protein. This antibody does not cross-react with other TEAD family member proteins.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TEAD2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The Hippo pathway is an important evolutionarily conserved signaling pathway that controls organ size and tumor suppression by inhibiting cell proliferation and promoting apoptosis (1,2). An integral function of the Hippo pathway is to repress the activity of Yes-associated protein (YAP), a proposed oncogene whose activity is regulated by phosphorylation and subcellular localization (3,4). When the Hippo pathway is turned on, YAP is phosphorylated by LATS1/2 kinase and sequestered in the cytoplasm by 14-3-3 protein binding, rendering YAP inactive. When the Hippo pathway is off, non-phosphorylated YAP translocates to the nucleus where it associates with various transcription factors including members of the transcriptional enhancer factor (TEF) family, also known as the TEA domain (TEAD) family (TEAD1-4) (5,6). Although widely expressed in tissues, the TEAD family proteins have specific tissue and developmental distributions. YAP/TEAD complexes regulate the expression of genes involved in cell proliferation and apoptosis (5).

Background References

1. Pan, D. (2010) *Dev Cell* 19, 491-505.
2. Harvey, K.F. et al. (2003) *Cell* 114, 457-67.
3. Zhao, B. et al. (2010) *Genes Dev* 24, 862-74.
4. Zhao, B. et al. (2008) *Curr Opin Cell Biol* 20, 638-46.
5. Zhao, B. et al. (2008) *Genes Dev* 22, 1962-71.
6. Zhao, B. et al. (2007) *Genes Dev* 21, 2747-61.

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

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