

**TEAD3 Antibody**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	49	Rabbit	#Q99594	7005

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:100

**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**

TEAD3 Antibody recognizes endogenous levels of total TEAD3 protein. This antibody does not cross-react with other TEAD family proteins.

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys110 of human TEAD3 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 **IP:** Immunoprecipitation

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat

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