

Tensin 2 Antibody



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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 145-155	Source/Isotype: Rabbit	UniProt ID: #Q63HR2	Entrez-Gene Id: 23371
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

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

Tensin 2 Antibody recognizes endogenous levels of total Tensin 2 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg155 of human Tensin 2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Tensin 2 belongs to the Tensin family of cytoskeletal proteins that includes Tensin 1-3 and Cten, which couple integrins to the actin cytoskeleton (1). Tensin proteins contain SH2 and phosphotyrosine binding (PTB) domains, which enable interaction with diverse signaling molecules and proteins. Tensin family proteins play important roles in signal transduction, cell proliferation, and motility (2-5).

Tensin 2 is localized to focal adhesions of various tissues with highest expression in the heart, kidney, and liver (6,7). Tensin 2 inhibits Akt/PKB signaling via a phosphatase tensin-type domain (8). However, Tensin 2 also mediates thrombopoietin/c-Mpl signaling, which promotes Akt signaling (9). Interaction with Tensin 2 is essential for the tumor suppressor function of Deleted in Cancer 1 (DLC1) (6,10,11).

Background References

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- Chen, L. et al. (2012) *J Biol Chem* 287, 26104-14.

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 **M:** Mouse **R:** Rat

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