

#2948 Store at -20°C

Angiopoietin-2 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	M	Transfected Only	66	Rabbit	#O15123	285

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

Angiopoietin-2 Antibody detects transfected levels of mouse angiopoietin-2 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys275 of mouse angiopoietin-2. Antibodies are purified by peptide affinity chromatography.

Background

Angiopoietins are a family of Tie receptor ligands. There are four angiopoietins discovered so far: angiopoietins 1, 2, 3 and 4 (Ang1, 2, 3, and 4) (1-3). Ang1 binds to the Tie-2 receptor and leads to its autophosphorylation and subsequent activation of downstream signaling pathways. It plays an important role in blood vessel formation, maturation and subsequent stabilization (1,4,5). Ang2 is an endothelium-specific growth factor that functions as an antagonist to Ang1, promotes vascular associated proinflammatory function, destabilizes quiescent endothelium, leads to vascular leakage and vascular destabilization and remodeling (2,6,7). Ang2 is selectively expressed in many tumor tissues where, combined with other growth factors such as VEGF, it can promote vascular remodeling, angiogenesis and inflammation (7-9).

Background References

1. Davis, S. et al. (1996) *Cell* 87, 1161-9.
2. Maisonpierre, P.C. et al. (1997) *Science* 277, 55-60.
3. Valenzuela, D.M. et al. (1999) *Proc Natl Acad Sci USA* 96, 1904-9.
4. Suri, C. et al. (1996) *Cell* 87, 1171-80.
5. Thurston, G. et al. (1999) *Science* 286, 2511-4.
6. Gale, N.W. et al. (2002) *Dev Cell* 3, 411-23.
7. Fiedler, U. et al. (2006) *Nat Med* 12, 235-9.
8. Tait, C.R. and Jones, P.F. (2004) *J Pathol* 204, 1-10.
9. Tsutsui, S. et al. (2006) *Breast Cancer Res Treat* 98, 261-6.

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

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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