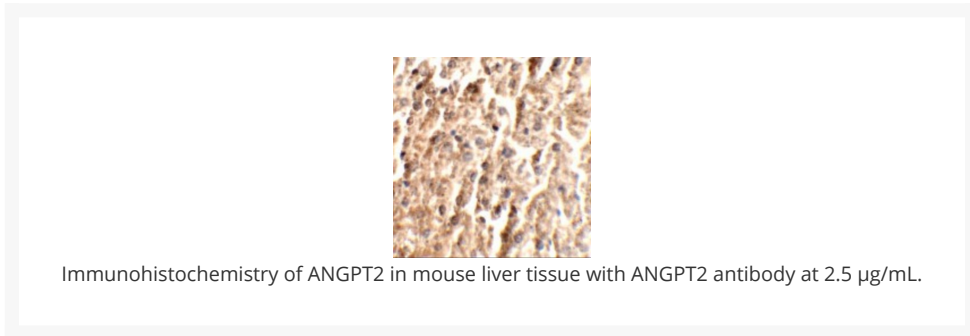
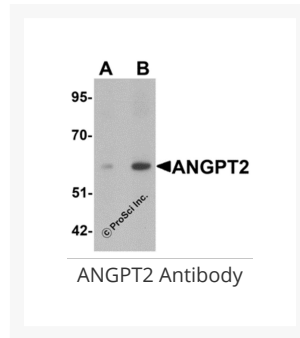




ANGPT2 Antibody

Cat. No.: 6737



Ψ Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human, Mouse, Rat
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Bovine: (100%), Pig: (100%)
IMMUNOGEN:	ANGPT2 antibody was raised against an 18 amino acid synthetic peptide near the carboxy terminus of human ANGPT2. The immunogen is located within the last 50 amino acids of ANGPT2.
TESTED APPLICATIONS:	ELISA, IHC-P, WB

APPLICATIONS:	ANGPT2 antibody can be used for detection of ANGPT2 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. Antibody validated: Western Blot in human samples and Immunohistochemistry in mouse samples. All other applications and species not yet tested.
SPECIFICITY:	At least three isoforms of ANGPT2 are known to exist; this antibody will detect all three isoforms.
POSITIVE CONTROL:	1) Cat. No. 1304 - Human Liver Tissue Lysate
PREDICTED MOLECULAR WEIGHT:	Predicted: 55 kDa Observed: 58 kDa

Ψ Properties

PURIFICATION:	ANGPT2 Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	ANGPT2 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	ANGPT2 antibody can be stored at 4 °C for three months and -20 °C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Ψ Additional Info

OFFICIAL SYMBOL:	ANGPT2
ALTERNATE NAMES:	ANGPT2 Antibody: ANG2, AGPT2, Angiotensin-2, ANG-2
ACCESSION NO.:	NP_001138
PROTEIN GI NO.:	4557315
GENE ID:	285
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Ψ Background and References

BACKGROUND:	ANGPT2 Antibody: Angiopoietin-2 (ANGPT2) is a member of the Ang family, a family of angiogenic factors that play major roles in angiogenesis during the development and growth of human cancers, but also during lymphangiogenesis. ANGPT2 is generally considered an antagonist of ANGPT1 and endothelial TEK tyrosine kinase (TIE-2, TEK). ANGPT2 disrupts the vascular remodeling ability of ANGPT1 and is thought to induce endothelial cell apoptosis, resulting in vessel regression. Expression of ANGPT2 has been linked to invasive and metastatic phenotypes of gliomas and other cancers.
REFERENCES:	1) Hu B and Cheng SY. Angiopoietin-2: Development of inhibitors for cancer therapy. <i>Curr. Oncol. Rep.</i> 2009; 11:111-6.
	2) Maisonpierre PC, Suri C, Jones PF, et al. Angiopoietin-2, a natural antagonist for Tie2 that disrupts in vivo angiogenesis. <i>Science</i> 1997; 277:55-60.
	3) Lobov IB, Brooks PC, Lang RA, et al. Angiopoietin-2 displays VEGF-dependent modulation of capillary structure and endothelial cell survival in vivo. <i>Proc. Natl. Acad. Sci. USA</i> 2002; 99:11205-10.
	4) Bach F, Uddin FJ, Burke D, et al. Angiopoietins in malignancy. <i>Eur. J. Surg. Oncol.</i> 2007; 33:7-15.

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