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Gremlin Antibody



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or Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB	Reactivity: M	Sensitivity: Transfected Only	MW (kDa): 21	Source: Rabbit	UniProt ID: #O60565	Entrez-Gene Id 26585	
Product Usage Information	Ap	Application			Dilution		
imormation	We	estern Blotting			1:1000		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5) 20°C. Do not aliquot the antibody.			s), 150 mM NaCl, 10	00 μg/ml BSA and 50% ç	ylycerol. Store at –	
Specificity / Sensitivity Gremlin		remlin Antibody detects transfected levels of total gremlin protein.					
Species predicte react based on 1	u 10	man, Rat					

sequence homology:

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Val170 of

human gremlin. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Gremlin is a secreted antagonist of bone morphogenetic proteins that play important roles during development. Gene targeting generates gremlin deficient mice that die shortly after birth due to absent kidneys and defects in lung septation (1-3). Gremlin also plays a role in cardiomyogenesis and angiogenesis (4,5). TGF-β can induce gremlin expression under pathological conditions. Gremlin colocalizes with TGF-β in tubulointerstitial fibrosis associated with chronic allograft nephropathy and is expressed in diabetic nephropathy in vivo (6-8). Gremlin is widely expressed in cancer associated stromal cells and can enhance cancer cell proliferation (9).

Background References

- 1. Zúñiga, A. et al. (1999) Nature 401, 598-602.
- 2. Zuniga, A. et al. (2004) Genes Dev 18, 1553-64.
- 3. Michos, O. et al. (2004) Development 131, 3401-10.
- 4. Stabile, H. et al. (2007) Blood 109, 1834-40.
- 5. Kami, D. et al. (2008) PLoS ONE 3, e2407.
- 6. Carvajal, G. et al. (2008) Transplant Proc 40, 734-9.
- 7. McMahon, R. et al. (2000) J Biol Chem 275, 9901-4.
- 8. Dolan, V. et al. (2005) Am J Kidney Dis 45, 1034-9.
- 9. Sneddon, J.B. et al. (2006) Proc Natl Acad Sci USA 103, 14842-7.

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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Limited Uses

Gremlin Antibody (#4383) Datasheet Without Images Cell Signaling Technology

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