Revision 1

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AMFR Antibody



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Applications: W, IP	Reactivity: H Mk Dg	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit	UniProt ID: #Q9UKV5	Entrez-Gene Id: 267
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.				ycerol. Store at –
Specificity/Sen	y/Sensitivity AMFR Antibody recognizes endogenous levels of total AMFR protein. This antibody does not cross- with HRD1.		loes not cross-react			
Source / Purification Polyclonal antibodies are pro residues near the carboxy ter peptide affinity chromatogra		are produced by im oxy terminus of hu atography.	produced by immunizing animals with a synthetic peptide corresponding to y terminus of human AMFR protein. Antibodies are purified by protein A and ography.			
Background		Autocrine motility factor receptor (AMFR/gp78) is a putative seven transmembrane domain G protein- coupled receptor that functions, in part, at the cell surface as a cytokine receptor for autocrine motility factor/phosphoglucose isomerase (AMF/PGI). AMFR is also localized to an intracellular mitochondria- associated smooth ER domain where it functions as an E3 ubiquitin ligase (1). AMFR function, as both a cytokine receptor and ubiquitin ligase, is linked to a variety of cellular signaling cascades associated with metastasis development and increased invasiveness. AMFR was initially proposed to be a RING-H2 E3 ubiquitin ligase after sequence analysis identified a catalytic RING finger and CUE motif, which are responsible for ubiquitin ligase activity and ubiquitin binding, respectively (2,3). Indeed, AMFR is a key component and amongst the best characterized ubiquitin ligases of the endoplasmic reticulum associated degradation (ERAD) machinery, a process involving recognition of misfolded proteins, ubiquitination, deglycosylation, retro-translocation to the cytosol, and targeting to the proteasome (4). Recent studies have shown that AMFR plays an important role in cholesterol homeostasis via the sterol- mediated ubiquitination of HMG-CoA reductase and its cofactor Insig-1 (5,6). Furthermore, AMFR has been implicated in the degradation of apolipoprotein B100 (7). It was recently reported that AMFR degrades the metastasis suppressor KAI-1/CD-82, representing the first evidence that AMFR ubiquitin ligase activity is involved in metastasis development (8). Increased expression of AMFR correlates with a high incidence of recurrence and reduced survival in patients with bladder, colorectal, and gastric cancers (9-11).				
Background Re	eferences	1. Registre, M. et al. (20 2. Shimizu, K. et al. (19 3. Ponting, C.P. (2000) 4. Meusser, B. et al. (20 5. Song, B.L. et al. (2006) 6. Lee, J.N. et al. (2006) 7. Liang, J.S. et al. (2007) 8. Tsai, Y.C. et al. (2007) 9. Hirono, Y. et al. (1997) 10. Nakamori, S. et al. (1997)	004) <i>Biochem Biopl</i> 99) <i>FEBS Lett</i> 456, 2 <i>Biochem J</i> 351 Pt 2, 005) <i>Nat Cell Biol</i> 7, 5) <i>Mol Cell</i> 19, 829- <i>J Biol Chem</i> 281, 39 3) <i>J Biol Chem</i> 278, 1) <i>Nat Med</i> 13, 1504- 6) <i>Br J Cancer</i> 74, 20 (1994) <i>Cancer</i> 74, 1 1) <i>Am J Pathol</i> 150, 1	hys Res Commun 320, 1 295-300. 527-35. 766-72. 40. 9308-15. 23984-8. -9. 003-7. 855-62. 919-23.	316-22.	
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	Buffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a	ern blots, incubate at 4°C with gentle s	membrane with diluted haking, overnight.	primary antibody i	n 5% w/v BSA, 1X
Applications K	ey	W: Western Blotting IP	: Immunoprecipita	tion		

Cross-Reactivity Key	H: Human Mk: Monkey Dg: Dog
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