#2104 Store at -20C

Grp94 Antibody



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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 100	Source: Rabbit	UniProt ID: #P14625	Entrez-Gene Id: 7184	
Product Usage Information	Application			Dilution			
mormation	We	stern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		Grp94 Antibody detects endogenous levels of total Grp94 protein.					
Source / Purification	sequ	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence surrounding Met622 of human Grp94 . Antibodies are purified by protein A and peptide affinity chromatography.					
Background	Insid foldi foldi role stud tumo pres mati	Secretory proteins are synthesized on polysomes and translocated into the endoplasmic reticulum (ER). Inside ER, these proteins are often modified by disulfide bond formation, amino-linked glycosylation and folding. The ER contains a pool of molecular chaperones, including Grp94, to help ensure correct protein folding. Grp94 is a glucose-regulated protein (1) with sequence homology to Hsp90 (2). In addition to its role in helping to facilitate folding of a number of secretory proteins to their correct conformation (3), studies suggest that Grp94 derived from cancer cells also induces anti-tumor immune responses in mouse tumor models (4, 5). One way in which Grp94 promotes tumor immunogenicity is its ability to bind to and present tumor-derived peptides as antigens (6). Furthermore, Grp94 has also been shown to induce maturation of dendritic cells (7). Taken together, Grp94 functions both as a tumor-specific antigen and as an activator of antigen-presenting cells to elicit an anti-cancer immune response (8).					
Background Referer	orger, P.K. and Pell rgon, Y. and Simen. lachere, N.E. et al. amura, Y. et al. (199 child, H. and Ramm ingh-Jasuja, H. et a	981) <i>Proc. Natl. Acad. Sci. USA</i> 78, 4922-4925. relham, H.R. (1987) <i>J. Mol. Biol.</i> 194, 341-344. en, B.B. (1999) <i>Semin. Cell Dev. Biol.</i> 10, 495-505. al. (1997) <i>J. Exp. Med.</i> 186, 1315-1322. 1997) <i>Science</i> 278, 117-120. mmensee, H.G. (2000) <i>Nat. Immunol.</i> 1, 100-101. et al. (2000) <i>Eur. J. Immunol.</i> 30, 2211-2215. al. (2004) <i>Cell Stress Chaperones</i> 9, 325-331.					

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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Grp94 Antibody (#2104) Datasheet Without Images Cell Signaling Technology

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