Grp94 Antibody	<b>Cell Signaling</b> TECHNOLOGY®		
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
2104	Web:	info@cellsignal.com cellsignal.com	
#3	3 Trask Lane   Danvers   Mas	sachusetts   01923   USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 100	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P14625	Entrez-Gene Id: 7184		
Product Usage Information		<b>Application</b> 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		Grp94 Antibody detects endogenous levels of total Grp94 protein.						
Source / Purific	<b>Durce / Purification</b> Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding the sequence surrounding Met622 of human Grp94 . Antibodies are purified by protein A and pept affinity chromatography.							
Background		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 Re	eferences 1. Lee, A.S. et al. (1981) Proc. Natl. Acad. Sci. USA 78, 4922-4925.   2. Sorger, P.K. and Pelham, H.R. (1987) J. Mol. Biol. 194, 341-344.   3. Argon, Y. and Simen, B.B. (1999) Semin. Cell Dev. Biol. 10, 495-505.   4. Blachere, N.E. et al. (1997) J. Exp. Med. 186, 1315-1322.   5. Tamura, Y. et al. (1997) Science 278, 117-120.   6. Schild, H. and Rammensee, H.G. (2000) Nat. Immunol. 1, 100-101.   7. Singh-Jasuja, H. et al. (2000) Eur. J. Immunol. 30, 2211-2215.   8. Nicchitta, C.V. et al. (2004) Cell Stress Chaperones 9, 325-331.							
Species Reactiv	/ity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	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 Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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