

#3303 Store at -20C

HSPA4/Apg-2 Antibody


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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 110	Source: Rabbit	UniProt ID: #P34932	Entrez-Gene Id: 3308
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Product Usage Information	Application 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	HSPA4/Apg-2 Antibody detects endogenous levels of total HSPA4 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human HSPA4. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The heat shock protein HSPA4 (Apg-2, HSP70RY) is a member of the heat-shock protein 110 (Hsp 110) subfamily of Hsp70 heat-shock proteins (1). Apg-2 has chaperone ability similar to Hsp110, and it plays a role under non-stress conditions (2). Apg-2 interacts with TJP1/ZO-1 and functions as a regulator of ZO-1-ZONAB signaling in epithelial cells in response to cellular stress (3,4).	
Background References	1. Kaneko, Y. et al. (1997) <i>Gene</i> 189, 19-24. 2. Gotoh, K. et al. (2004) <i>FEBS Lett</i> 560, 19-24. 3. Tsapara, A. et al. (2006) <i>Mol Biol Cell</i> 17, 1322-30. 4. Aijaz, S. et al. (2007) <i>BMC Cell Biol</i> 8, 49.	

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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