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Store at -20C
#3303

HSPA4/Apg-2 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	110	Rabbit	#P34932	3308

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) *Gene* 189, 19-24.
2. Gotoh, K. et al. (2004) *FEBS Lett* 560, 19-24.
3. Tsapara, A. et al. (2006) *Mol Biol Cell* 17, 1322-30.
4. Aijaz, S. et al. (2007) *BMC Cell Biol* 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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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