

#92880 Store at -20°C

Alix (E6P9B) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H M R	Endogenous	90-100	Rabbit IgG	#Q8WUM4	10015

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:800

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Alix (E6P9B) Rabbit mAb recognizes endogenous levels of total Alix protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro346 of human Alix protein.

Background

Alix, a phylogenetically conserved cytosolic scaffold protein, contains an N-terminal Bro1 domain, a coiled-coil region and a C-terminal proline-rich domain (1,2). Originally identified as an ALG-2 (apoptosis-linked gene 2)-interacting protein involved in programmed cell death (3,4), Alix also regulates many other cellular processes, such as endocytic membrane trafficking and cell adhesion through interactions with ESCRT (endosomal sorting complex required for transport) proteins, endophilins, and CIN85 (Cbl-interacting protein of 85 kDa) (5,6).

Alix has also been shown to be involved in the biogenesis of exosomes, small secreted vesicles that contribute to cell signaling (7, 8). In addition, Alix interacts with Atg12-Atg3 to promote autophagy and endosomal fusion (9)

Background References

- Mattei, S. et al. (2006) *Eur. J. Cell Biol.* 85, 925-936.
- Odorizzi, G. (2006) *J. Cell Sci.* 119, 3025-3032.
- Vito, P. et al. (1999) *J. Biol. Chem.* 274, 1533-1540.
- Missotten, M. et al. (1999) *Cell Death Differ.* 6, 124-129.
- Katoh, K. et al. (2003) *J. Biol. Chem.* 278, 39104-39113.
- Sadoul, R. (2006) *Biol. Cell* 98, 69-77.
- Baietti, M.F. et al. (2012) *Nat Cell Biol* 14, 677-85.
- Chatellard-Causse, C. et al. (2002) *J Biol Chem* 277, 29108-15.
- Murrow, L. et al. (2015) *Nat Cell Biol* 17, 300-10.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

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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