

Store at  
-20°C

# Alix (E4T7U) Rabbit mAb

#18269

Support: +1-978-867-2388 (U.S.)  
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orders@cellsignal.comEntrez-Gene ID #10015  
UniProt ID #Q8WUM4

New 10/18

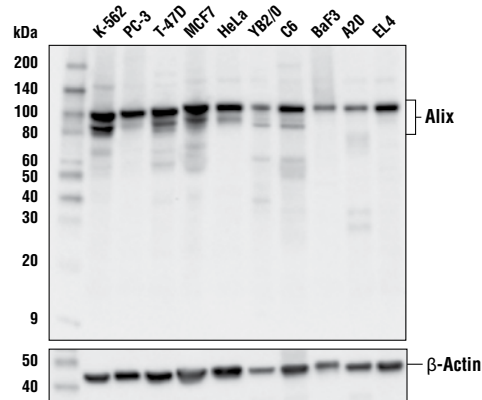
**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications W Endogenous	Species Cross-Reactivity* H, M, R	Molecular Wt. 90-100 kDa	Isotype Rabbit IgG**
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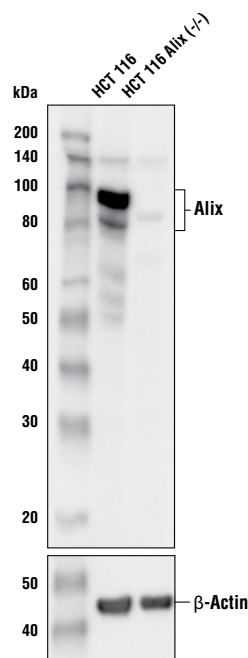
**Background:** Alix, a phylogenetically conserved cytosolic scaffold protein, contains an N-terminal Bro1 domain, a coiled-coil region and a C-terminal proline-rich domain (1,2). Originally identified as an ALG-2 (apoptosis-linked gene 2)-interacting protein involved in programmed cell death (3,4), 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).

**Specificity/Sensitivity:** Alix (E4T7U) 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 Arg475 of human Alix protein.



Western blot analysis of extracts from various cell lines using Alix (E4T7U) Rabbit mAb (upper) or  $\beta$ -Actin (D6A8) Rabbit mAb #8457 (lower).



Western blot analysis of extracts from HCT 116 and HCT 116 Alix knockout (-/-) cells using Alix (E4T7U) Rabbit mAb (upper) or  $\beta$ -Actin (D6A8) Rabbit mAb #8457 (lower).

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100  $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at  $-20^{\circ}\text{C}$ . Do not aliquot the antibody.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western blotting 1:1000

**For product specific protocols and a complete listing of recommended companion products please see the product web page at [www.cellsignal.com](http://www.cellsignal.com).**

**Background References:**

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

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**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween<sup>®</sup>20 at 4°C with gentle shaking, overnight.**

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.