

Product Information

Anti-ALIX

produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200476**

Product Description

Anti-ALIX is produced in rabbit using as immunogen a peptide corresponding to an internal region of human ALIX/ PDCD6IP (GeneID: 10015), conjugated to KLH. The corresponding sequence is identical in monkey, bovine and dog and differs by 2 amino acids in mouse and rat. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-ALIX recognizes human and mouse ALIX. The antibody may be used in various immunochemical techniques including immunoblotting (~95 kDa) and immunoprecipitation. Detection of the ALIX band by immunoblotting is specifically inhibited by the immunizing peptide.

ALIX (Apoptosis-linked gene 2 (ALG-2)-interacting protein X), also named Programmed Cell Death 6 interacting protein (PDCD6IP), is a protein that functions within the ESCRT pathway in the abscission stage of cytokinesis, in intraluminal endosomal vesicle formation, and in enveloped virus budding. Studies using mouse cells have shown that over-expression of this protein can block apoptosis. In addition, ALIX binds to PDCD6, a protein required for apoptosis, in a calcium-dependent manner. ALIX also binds to endophilins, proteins that regulate membrane shape during endocytosis. Over-expression of ALIX and endophilins results in cytoplasmic vacuolization, which may be partly responsible for the protection against cell death. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. Related pseudogenes have been identified on chromosome 15.¹⁻⁴

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage freeze in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working concentration of 2.5-5 µg/mL is recommended using whole extracts of mouse A20 cells.

Immunoprecipitation: a working amount of 5-10 µg is recommended using lysates of human Jurkat cells.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

References

1. Ren, X. and Hurley, J.H., *Traffic*, **12**, 1282-1290 (2011).
2. Odorizzi, G., *J. Cell Sci.*, **119**, 3025-3032 (2006).
3. Chatellard-Causse, C., et al., *J. Biol. Chem.*, **277**, 29108-29115 (2002).
4. Zhou, X., et al., *Biochem. J.*, **432**, 525-534 (2010).

ST,RC,PHC 07/12-1