3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

# Product Information

**Anti-ALIX/PDCD6IP antibody, Mouse monoclonal**
clone ALIX-1**,** purified from hybridoma cell culture

Catalog Number **SAB4200646**

## Product Description

Anti-ALIX/PDCD6IP antibody, Mouse monoclonal (mouse IgG1 isotype) is derived from the hybridoma ALIX-1 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a peptide corresponding to an internal region of human ALIX/ PDCD6IP (GeneID: 10015), conjugated to KLH. The corresponding sequence is identical in mouse, pig, monkey, bovine and dog and differs by a single amino acid in rat. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Anti-ALIX/PDCD6IP antibody, Mouse monoclonal recognizes human ALIX/PDCD6IP. The antibody may be used in various immunochemical techniques including immunoblotting (~95 kDa), immunoprecipitation, flow cytometry and immunofluorescence.

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. It is involved in the abscission stage of cytokinesis, in intralumenal endosomal vesicle formation, and in enveloped virus budding. Studies using mouse cells have shown that overexpression 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. Overexpression 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.

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 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 µg/mL is recommended using whole extracts of human MOLT4 cells.

Immunoprecipitation: a working amount of 10-20 µg/ml is recommended using lysates of human MOLT4 cells.

Flow Cytometry: a working dilution of 5-10 µg /test is recommended using human MOLT4 cells.

Immunofluorescence: a working concentration of 10-20 µg/mL is recommended using human HeLa cells.

**Note**: 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).

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