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Product Information

Anti-FAM48A /P38IP
produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200382**

Product Description

Anti-FAM48A /P38IP is produced in rabbit using as immunogen a synthetic peptide corresponding to an internal region of human FAM48A (GeneID: 55578), conjugated to KLH. The corresponding sequence is identical in mouse, rat, bovine, canine and monkey. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-FAM48A /P38IP recognizes human and monkey FAM48A /P38IP. The antibody may be used in various immunochemical techniques including immunoblotting (~95 kDa) and immunofluorescence. Detection of the FAM48A/P38IP band by immunoblotting is specifically inhibited by the immunizing peptide.

p38IP (p38-interacting protein), also named FAM48A (family with sequence similarity 48, member A), was originally identified as a protein that binds directly to p38 MAP kinase and is required for its activation *in vivo*. Both p38 and p38IP were found to be necessary for E-cadherin down regulation during gastrulation.[1] Recently, p38IP was identified also as an interacting protein for mAtg9, a transmembrane protein required for autophagy. p38IP contains a nuclear localization sequence, a PEST domain and two serine rich domains, and localizes both to the nucleus and the cytoplasm, where it partially colocalizes with mAtg9. The interaction of p38IP with mAtg9 is regulated by p38. p38IP is required for starvation-induced mAtg9 trafficking and autophagosome formation.[2-3]

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 1-2 µg/mL is recommended using a whole extract of human HEK-293T cells, or 2.5-5.0 µg/mL using whole extracts of mouse A20 and rat PC12 cells.

Immunofluorescence: a working concentration of 1-2 µg/mL is recommended using monkey COS7 cells.

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

References

1. Zohn, I.E., et al., *Cell*, **125**, 957-969 (2006).
2. Webber, J.L., and Tooze, S.A., *EMBO J.*, **29**, 27-40 (2010).
3. Webber, J.L., and Tooze, S.A., *FEBS Lett.*, **584**, 1319-1326 (2010).

ST,RC,PHC 01/12-1