

Product Information

Anti-Malectin (C-terminal)

produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200245**

Product Description

Anti-Malectin (C-terminal) is produced in rabbit using as immunogen a synthetic peptide corresponding to the C-terminal region of human Malectin (GeneID: 9761) conjugated to KLH. The corresponding sequence differs by a single amino acid in mouse and rat. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Malectin (C-terminal) recognizes human Malectin. The antibody may be used in various immunochemical techniques including immunoblotting (~32 kDa) and immunoprecipitation. Detection of the malectin band by immunoblotting is specifically inhibited by the immunizing peptide.

Malectin is a type-I membrane-anchored ER protein conserved in animals. Its luminal part contains a carbohydrate binding domain with unique selectivity for Glc(2)Man(9)GlcNAc(2), an ER intermediate in the N-glycosylation pathway. Malectin appears to play a role in the early steps of protein N-glycosylation, and in the folding and quality control of glycoproteins in the ER. Malectin may be involved in diseases that are associated with disorders of protein folding.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 1-2 µg/mL is recommended using whole extracts of HEK-293T cells over-expressing human Malectin.

Immunoprecipitation: a working amount of 5-10 µg is recommended using lysates of HEK-293T cells over-expressing human Malectin.

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

References

1. Schallus, T., et al., *Mol. Biol. Cell*, **19**, 3404-3414 (2008).
2. Takeda, Y., et al., *Curr. Opin. Chem. Biol.*, **13**, 582-591 (2009).
3. Pierce, J.M., and Taniguchi, N., *Proteomics*, **9**, 1738-1741 (2009).
4. Schallus, T., et al., *Glycobiol.*, **20**, 1010-1020 (2010).

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