

Product Information

Anti-Malectin

produced in rabbit, affinity isolated antibody

Product Number **SAB4200244**

Product Description

Anti-Malectin is produced in rabbit using as the immunogen a synthetic peptide corresponding to an internal region of human malectin (GeneID: 9761), conjugated to KLH. The corresponding sequence is identical in monkey, mouse, rat, bovine, pig, and canine. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Malectin recognizes human, rat, and mouse malectin. The antibody may be used in various immunochemical techniques including immunoblotting (~32 kDa). 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 most species. 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 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 protein folding disorders.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

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

Store at -20 °C. 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 overexpressing human malectin and 2-4 µg/mL using whole extracts of mouse and rat liver.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

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).

VS,ST,CS,KAA,PHC,MAM 07/19-1