

MAL 2A

Cat.No. 229-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 13 to 21 from rat MAL2A (UniProt Id: Q7TPB7)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	229 003
Remarks	This control peptide consists of the synthetic peptide (aa 13 - 28 in rat) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

MAL 2 is an integral membrane protein that contains 4 putative transmembrane domains and belongs to the myelin and lymphocyte (MAL) protein family. Two isoforms, **MAL 2A** and MAL 2B, have been described so far. MAL 2 overexpression has been reported in several cancer types like breast, ovarian, and pancreatic carcinoma. It has been shown to be an essential component of the machinery for basolateral-to-apical transcytosis in hepatoma HepG2 cells but its mechanistic function still has to be elucidated. Recently MAL 2A has been identified as a synaptic vesicle protein mainly localized to VGLUT positive vesicles.

Selected General References

Mucin 1 (MUC1) is a novel partner for MAL2 in breast carcinoma cells.
Fanayan S, Shehata M, Agterof AP, McGuckin MA, Alonso MA, Byrne JA
BMC cell biology (2009) 10: 7.

Expression of MAL2, an integral protein component of the machinery for basolateral-to-apical transcytosis, in human epithelia.
Marazuela M, Acevedo A, García-López MA, Adrados M, de Marco MC, Alonso MA
The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society (2004) 52(2): 243-52.

Expression and distribution of MAL2, an essential element of the machinery for basolateral-to-apical transcytosis, in human thyroid epithelial cells.

Marazuela M, Martín-Belmonte F, García-López MA, Aranda JF, de Marco MC, Alonso MA
Endocrinology (2004) 145(2): 1011-6.

MAL2, a novel raft protein of the MAL family, is an essential component of the machinery for transcytosis in hepatoma HepG2 cells.

de Marco MC, Martín-Belmonte F, Kremer L, Albar JP, Correias I, Vaerman JP, Marazuela M, Byrne JA, Alonso MA
The Journal of cell biology (2002) 159(1): 37-44.