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Ceramide Transfer Protein (CERTL) Blocking Peptide

BACKGROUND

CERT mediates the ATP-dependent ER-to-Golgi transfer of ceramide in a non-vesicular manner. The biosynthesis of lipids involves steps that occur in different intracellular compartments. The movement of lipids within these compartments is important in lipid-mediated signalling. Human CERT is identical to a splice variant of human Goodpasture antigen-binding protein (GPBP26).

CERT contains a phosphoinositide-binding pleckstrin-homology (PH) domain (which targets CERT to the Golgi by binding phosphatidylinositol -4-phosphate (PtdIns4P)), a middle region, and a putative lipid-transfer-catalysing domain called START. CERT and CERTL can specifically extract ceramide from phospholipid bilayers in a START-domain-dependent manner. CERT interacts with ER membranes and specifically extracts ceramide. CERT catalyses both the specific extraction of ceramide from donor vesicles and its transfer to acceptor vesicles. CERT can associate with the Golgi in a PtdIns4P dependent manner.

ORDERING INFORMATION

CATALOG NUMBER
X2380B

SIZE
50 μ g

CUSTOMER STORAGE
Product should be stored at -20°C.
Aliquot to avoid freeze/thaw cycles

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

SHIP CONDITIONS

Ship on gel ice, store at -20°C immediately upon arrival

STABILITY

Products are stable for one year from purchase when stored properly

COMMENTS

For use with CERTL polyclonal antibodies (Cat. No. X2089P & X2379P).

INSTRUCTIONS

Incubate antibody neat with at least a 50 fold stoichiometric excess of blocking peptide at 37 deg C for 20 minutes (molecular weights of peptide and antibody are ~2.5 kDa and ~160 kDa, respectively). Antibody can then be diluted to a concentration suitable for Western blot.

Example: 10 μ l or 10 μ g of Exalpha's rabbit anti-CERTL (Cat. No. X2089P) is added to 10 μ g of blocking peptide for a total volume of 20 μ l. The mixture is allowed to incubate for 20 minutes at 37 deg C prior to dilution in suitable buffer (for Western blot, etc.).