Human Annexin A1 peptide ab47659

Overview

Product name: Human Annexin A1 peptide

Description

Nature: Synthetic
Amino Acid Sequence
Accession: P04083
Species: Human

Specifications

Our Abpromise guarantee covers the use of ab47659 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Form: Liquid

Additional notes:
- First try to dissolve a small amount of peptide in either water or buffer. The more charged residues on a peptide, the more soluble it is in aqueous solutions.
- If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or buffer.
- Consider that any solvent used must be compatible with your assay. If a peptide does not dissolve and you need to recover it, lyophilise to remove the solvent.
- Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is cloudy or has gelled the peptide may be in suspension rather than solubilised.
- Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior to use.

Preparation and Storage

Stability and Storage: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

General Info
Function
Calcium/phospholipid-binding protein which promotes membrane fusion and is involved in exocytosis. This protein regulates phospholipase A2 activity. It seems to bind from two to four calcium ions with high affinity.

Sequence similarities
Belongs to the annexin family.
Contains 4 annexin repeats.

Domain
A pair of annexin repeats may form one binding site for calcium and phospholipid.

Post-translational modifications
Phosphorylated by protein kinase C, epidermal growth factor receptor/kinase and TRPM7.
Phosphorylation results in loss of the inhibitory activity.

Cellular localization
Found in the cytoplasm of type II pneumocytes and alveolar macrophages.

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