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Phospho-ENT1(Slc29a1)(S254) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3615a

Specification

Phospho-ENT1(Slc29a1)(S254) Antibody Blocking peptide - Product Information

Primary Accession O99808

Phospho-ENT1(Slc29a1)(S254) Antibody Blocking peptide - Additional Information

Gene ID 2030

Other Names
Equilibrative nucleoside transporter 1, Equilibrative nitrobenzylmercaptopurine riboside-sensitive nucleoside transporter, Equilibrative NBMPR-sensitive nucleoside transporter, Nucleoside transporter, es-type, Solute carrier family 29 member 1, SLC29A1, ENT1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3615a was selected from the Slc29a1 region of human Phospho-ENT1(Slc29a1). A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-ENT1(Slc29a1)(S254) Antibody Blocking peptide - Background

ENT1 is a member of the equilibrative nucleoside transporter family. The protein is categorized as an equilibrative (as opposed to concentrative) transporter that is sensitive to inhibition by nitrobenzylthioinosine (NBMPR). Nucleoside transporters are required for nucleotide synthesis in cells that lack de novo nucleoside synthesis pathways, and are also necessary for the uptake of cytotoxic nucleosides used for cancer and viral chemotherapies.

Phospho-ENT1(Slc29a1)(S254) Antibody Blocking peptide - References

Dephoure N, et al. (2008) Proc Natl Acad Sci U S A 105, 10762-7Bone DB, Robillard KR, Stolk M, Hammond JR (2007) Mol Membr Biol 24, 294-303

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peptide - Protein Information

Name SLC29A1

Synonyms ENT1

Function
Mediates both influx and efflux of nucleosides across the membrane (equilibrative transporter). It is sensitive (ES) to low concentrations of the inhibitor nitrobenzylmercaptopurine riboside (NBMPR) and is sodium-independent. It has a higher affinity for adenosine. Inhibited by dipyridamole and dilazep (anticancer chemotherapeutics drugs).

Cellular Location
Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Predominantly localized in the basolateral membrane in polarized MDCK cells

Tissue Location
Detected in erythrocytes (at protein level). Expressed in heart, brain, mammary gland, erythrocytes and placenta, and also in fetal liver and spleen.

Phospho-ENT1(Slc29a1)(S254) Antibody Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides