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Phospho-STAT6-Y641 Antibody Blocking Peptide

Synthetic peptide
Catalog # BP3270a

Specification

Phospho-STAT6-Y641 Antibody Blocking Peptide - Product Information

Primary Accession P42226

Phospho-STAT6-Y641 Antibody Blocking Peptide - Additional Information

Gene ID 6778

Other Names
Signal transducer and activator of transcription 6, IL-4 Stat, STAT6

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3270a was selected from the region of human Phospho-STAT6-Y641. 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-STAT6-Y641 Antibody Blocking Peptide - Protein Information

Name STAT6

Function
Carries out a dual function: signal transduction and activation of transcription. Involved in IL4/interleukin-4- and IL3/interleukin-3-mediated signaling.

Cellular Location
Cytoplasm. Nucleus. Note=Translocated into the nucleus in response to phosphorylation

Phospho-STAT6-Y641 Antibody Blocking Peptide - Protocols

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

- Blocking Peptides

Phospho-STAT6-Y641 Antibody Blocking Peptide - Images

Phospho-STAT6-Y641 Antibody Blocking Peptide - Background

STAT6 is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins.

Phospho-STAT6-Y641 Antibody Blocking Peptide - References

Valineva, T., et al., J. Biol. Chem. 280(15):14989-14996 (2005).Tang, X., et al., Proc. Natl. Acad. Sci. U.S.A. 102(14):5132-5137 (2005).Heller, N.M., et al., Am. J. Respir. Cell Mol. Biol. 31(5):573-582 (2004).Galka, E., et al., J. Surg. Res. 122(1):14-20 (2004).Zhang, W.J., et al., Int. J. Oncol. 24(2):447-453 (2004).