

**ASAP2 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17248b****Specification**

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**ASAP2 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O43150](#)**ASAP2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 8853**Other Names**

Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2, Development and differentiation-enhancing factor 2, Paxillin-associated protein with ARF GAP activity 3, PAG3, Pyk2 C-terminus-associated protein, PAP, ASAP2, DDEF2, KIAA0400

**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.

**ASAP2 Antibody (C-term) Blocking Peptide - Protein Information****Name** ASAP2**Synonyms** DDEF2, KIAA0400**Function**

Activates the small GTPases ARF1, ARF5 and ARF6. Regulates the formation of post-Golgi vesicles and modulates constitutive secretion. Modulates phagocytosis mediated by Fc gamma receptor and ARF6. Modulates PXN recruitment to focal contacts and cell migration.

**Cellular Location**

Cytoplasm. Golgi apparatus, Golgi stack membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Note=Colocalizes with F-actin and ARF6 in phagocytic cups

**Tissue Location**

Detected in heart, brain, placenta, kidney, monocytes and pancreas.

## **ASAP2 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **ASAP2 Antibody (C-term) Blocking Peptide - Images**

## **ASAP2 Antibody (C-term) Blocking Peptide - Background**

This gene encodes a multidomain protein containing an N-terminal alpha-helical region with a coiled-coil motif, followed by a pleckstrin homology (PH) domain, an Arf-GAP domain, an ankyrin homology region, a proline-rich region, and a C-terminal Src homology 3 (SH3) domain. The protein localizes in the Golgi apparatus and at the plasma membrane, where it colocalizes with protein tyrosine kinase 2-beta (PYK2). The encoded protein forms a stable complex with PYK2 in vivo. This interaction appears to be mediated by binding of its SH3 domain to the C-terminal proline-rich domain of PYK2. The encoded protein is tyrosine phosphorylated by activated PYK2. It has catalytic activity for class I and II ArfGAPs in vitro, and can bind the class III Arf ARF6 without immediate GAP activity. The encoded protein is believed to function as an ARF GAP that controls ARF-mediated vesicle budding when recruited to Golgi membranes. In addition, it functions as a substrate and downstream target for PYK2 and SRC, a pathway that may be involved in the regulation of vesicular transport. Multiple transcript variants encoding different isoforms have been found for this gene.

## **ASAP2 Antibody (C-term) Blocking Peptide - References**

Baranzini, S.E., et al. Hum. Mol. Genet. 18(4):767-778(2009) Wu, C., et al. Proteomics 7(11):1775-1785(2007) Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Olsen, J.V., et al. Cell 127(3):635-648(2006)