

UBXN1 Blocking Peptide (Center)

Synthetic peptide

Catalog # BP5360c

Specification

UBXN1 Blocking Peptide (Center) - Product Information

Primary Accession

[Q04323](#)

Other Accession

[Q922Y1](#), [Q32KW2](#), [NP_056937.2](#)**UBXN1 Blocking Peptide (Center) - Additional Information**

Gene ID 51035

Other Names

UBX domain-containing protein 1, SAPK substrate protein 1, UBA/UBX 333 kDa protein, UBXN1, SAKS1

Target/Specificity

The synthetic peptide sequence is selected from aa 165-178 of HUMAN UBXN1

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.

UBXN1 Blocking Peptide (Center) - Protein Information

Name UBXN1

Synonyms SAKS1

Function

Ubiquitin-binding protein that plays a role in the modulation of innate immune response. Blocks both the RIG-I-like receptors (RLR) and NF-kappa-B pathways. Following viral infection, UBXN1 is induced and recruited to the RLR component MAVS. In turn, interferes with MAVS oligomerization, and disrupts the MAVS/TRAFF3/TRAFF6 signalosome. This function probably serves as a brake to prevent excessive RLR signaling (PubMed:23545497). Interferes with the TNFalpha-triggered NF-kappa-B pathway by interacting with cellular inhibitors of apoptosis proteins (cIAPs) and thereby inhibiting their recruitment to TNFR1 (PubMed:25681446). Prevents also the activation of NF-kappa-B by associating with CUL1 and thus inhibiting NF-kappa-B inhibitor alpha/NFKBIA degradation that remains bound to NF-kappa-B (PubMed:28152074).

target="_blank">28152074). Interacts with the BRCA1-BARD1 heterodimer and regulates its activity. Specifically binds 'Lys-6'-linked polyubiquitin chains. Interaction with autoubiquitinated BRCA1 leads to the inhibition of the E3 ubiquitin-protein ligase activity of the BRCA1- BARD1 heterodimer (PubMed:20351172). Component of a complex required to couple deglycosylation and proteasome-mediated degradation of misfolded proteins in the endoplasmic reticulum that are retrotranslocated in the cytosol.

Cellular Location

Cytoplasm.

UBXN1 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

UBXN1 Blocking Peptide (Center) - Images**UBXN1 Blocking Peptide (Center) - References**

Ishibashi, T., et al. J. Biochem. 137(5):617-623(2005)
Barrios-Rodiles, M., et al. Science 307(5715):1621-1625(2005)
McNeill, H., et al. Biochem. J. 384 (PT 2), 391-400 (2004) :
Puente, X.S., et al. Nat. Rev. Genet. 4(7):544-558(2003)
Hoja, M.R., et al. Exp. Cell Res. 259(1):239-246(2000)