

Mouse Ulk3 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14304c**Specification**

Mouse Ulk3 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q3U3Q1](#)**Mouse Ulk3 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 71742**Other Names**

Serine/threonine-protein kinase ULK3, Unc-51-like kinase 3, Ulk3

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.

Mouse Ulk3 Antibody (Center) Blocking Peptide - Protein Information**Name** Ulk3**Function**

Serine/threonine protein kinase that acts as a regulator of Sonic hedgehog (SHH) signaling and autophagy. Acts as a negative regulator of SHH signaling in the absence of SHH ligand: interacts with SUFU, thereby inactivating the protein kinase activity and preventing phosphorylation of GLI proteins (GLI1, GLI2 and/or GLI3). Positively regulates SHH signaling in the presence of SHH: dissociates from SUFU, autophosphorylates and mediates phosphorylation of GLI2, activating it and promoting its nuclear translocation. Phosphorylates in vitro GLI2, as well as GLI1 and GLI3, although less efficiently. Also acts as a regulator of autophagy: following cellular senescence, able to induce autophagy (By similarity).

Cellular Location

Cytoplasm. Note=Localizes to pre- autophagosomal structure during cellular senescence.

Mouse Ulk3 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Ulk3 Antibody (Center) Blocking Peptide - Images

Mouse Ulk3 Antibody (Center) Blocking Peptide - Background

Serine/threonine protein kinase which enhances GLI1 and GLI2 transcriptional activity and consequently positively regulates GLI-dependent SHH signaling. May exert this function by promoting GLI1 nuclear localization. Phosphorylates in vitro GLI2, as well as GLI1 and GLI3, although less efficiently (By similarity).

Mouse Ulk3 Antibody (Center) Blocking Peptide - References

Maloverjan, A., et al. J. Biol. Chem. 285(39):30079-30090(2010)Gerhard, D.S., et al. Genome Res. 14 (10B), 2121-2127 (2004) :