

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

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**Mouse Ulk3 Antibody (Center) Blocking Peptide - Product Information**Primary 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) :