

Recombinant Mouse Calcoco2 Protein, Myc/DDK-tagged

Cat. No. Calcoco2-1936M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length calcium binding and coiled-coil domain 2 (Calcoco2), transcript variant 1, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Xenophagy-specific receptor required for autophagy-mediated intracellular bacteria degradation. Acts as an effector protein of galectin-sensed membrane damage that restricts the proliferation of infecting pathogens upon entry into the cytosol by targeting LGALS8-associated bacteria for autophagy. Initially orchestrates bacteria targeting to autophagosomes and subsequently ensures pathogen degradation by regulating pathogen-containing autophagosome maturation. Bacteria targeting to autophagosomes relies on its interaction with MAP1LC3A, MAP1LC3B and/or GABARAPL2, whereas regulation of pathogen-containing autophagosome maturation requires the interaction with MAP3LC3C. May play a role in ruffle formation and actin cytoskeleton organization and seems to negatively regulate constitutive secretion.
Molecular Mass	57 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Calcoco2 calcium binding and coiled-coil domain 2 [Mus musculus (house mouse)]
Official Symbol	Calcoco2
Synonyms	CALCOCO2; calcium binding and coiled-coil domain 2; calcium-binding and coiled-coil domain-containing protein 2; nuclear domain 10 protein NDP52; nuclear domain 10 protein 52 like 1; Ndp52; C77254; Ndp52l1; 2410154J16Rik
Gene ID	76815
mRNA Refseq	NM_029755
UniProt ID	A2A6M5

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