

Recombinant Human calcium binding and coiled-coil domain 2 Protein, Tag Free

Cat. No. CALCOCO2-174H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CALCOCO2/NDP52 protein (Q13137-1) (Ser 21-Arg 126) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	21-126aa
Description	This gene encodes a coiled-coil domain-containing protein. The encoded protein functions as a receptor for ubiquitin-coated bacteria and plays an important role in innate immunity by mediating macroautophagy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. 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 such as Salmonella typhimurium 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

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	regulate constitutive secretion.
Tag	Non
Molecular Mass	13 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	CALCOCO2 calcium binding and coiled-coil domain 2 [Homo sapiens (human)]
Official Symbol	CALCOCO2
Synonyms	CALCOCO2; calcium binding and coiled-coil domain 2; calcium-binding and coiled-coil domain-containing protein 2; MGC17318; NDP52; nuclear dot protein 52; nuclear domain 10 protein 52; nuclear domain 10 protein NDP52; antigen nuclear dot 52 kDa protein;
Gene ID	10241

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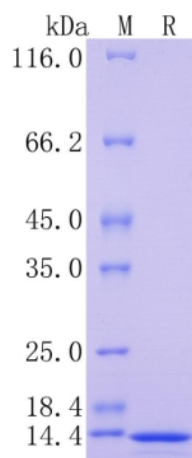
mRNA Refseq [NM_005831](#)

Protein Refseq [NP_005822](#)

MIM [604587](#)

UniProt ID [Q13137](#)

**Protein on SDS-
PAGE under
reducing (R)
condition.**



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