CALCOCO2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CALCOCO2, Monoclonal Antibody
Full Product Name	CALCOCO2 (Calcium Binding and Coiled-coil Domain 2, MGC17318, NDP52) (MaxLight 550)
Product Gene Name	anti-CALCOCO2 antibody
Product Synonym Names	Calcium Binding and Coiled-coil Domain 2; MGC17318; NDP52
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2H5
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified
Specificity	Recognizes CALCOCO2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43,669 Da
OMIM	604587
3D Structure	ModBase 3D Structure for Q13137
Immunogen	CALCOCO2 (NP_005822, 347aa-446aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SYMGLDFNSLPYQVPTSDEGGARQNPGLAYGNPYSGIQESSSPSPLSIKKCPICKADDICDHTLEQQQMQPLCFNCPICDKIFPATEKQIFEDHVFCHSL
Conjugate	MaxLight550
Product Categories/Family for anti-CALCOCO2 antibody	Antibodies; CCDC (Coiled-coil Domain-containing)
Applications Tested/Suitable for anti-CALCOCO2 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-CALCOCO2 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-CALCOCO2 antibody	The protein encoded by this gene is a subunit of nuclear domain 10 (ND10) bodies. ND10 bodies are nuclear domains appearing immunohistochemically as ten dots per nucleus. They are believed to be associated with the nuclear matrix on the basis of their resistance to nuclease digestion and salt extraction. ND10 proteins are removed from the nucleus by herpes simplex virus-1 infection and may have a role in viral life cycles. [provided by RefSeq]
Other Notes	Small volumes of anti-CALCOCO2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CALCOCO2 purchase	MBS6216111 is an antibody targeting CALCOCO2. Also known as CALCOCO2 (Calcium Binding and Coiled-coil Domain 2, MGC17318, NDP52) (MaxLight 550). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CALCOCO2. It may not necessarily be applicable to this product.

NCBI GI #	5031937
NCBI GeneID	10241
NCBI Accession #	NP_005822
UniProt Primary Accession #	Q13137
UniProt Secondary Accession #	Q53FQ5; Q53HB5; Q6IBN9; B2RBT0; B4DDC4; B4DDT4; B4DP36; B4E0C0; E7ENK0; E7ETP5; E9PBE5
UniProt Related Accession #	Q13137
GenBank Nucleotide #	NM_005831.4
NCBI Official Full Name	calcium-binding and coiled-coil domain-containing protein 2 isoform 3
NCBI Official Synonym Full Names	calcium binding and coiled-coil domain 2
NCBI Official Symbol	CALCOCO2
NCBI Official Synonym Symbols	NDP52
UniProt Protein Name	Calcium-binding and coiled-coil domain-containing protein 2
UniProt Synonym Protein Names	Antigen nuclear dot 52 kDa protein; Nuclear domain 10 protein NDP52; Nuclear domain 10 protein 52; Nuclear dot protein 52
Protein Family	Calcium-binding and coiled-coil domain-containing protein
UniProt Gene Name	CALCOCO2
UniProt Synonym Gene Names	NDP52; Nuclear domain 10 protein 52
UniProt Entry Name	CACO2_HUMAN
NCBI Protein Information	calcium-binding and coiled-coil domain-containing protein 2
NCBI Summary for CALCOCO2	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. [provided by RefSeq, May 2012]
Research Articles on CALCOCO2	**1.** the role of ORF75 in the antagonization of ND10-mediated intrinsic immunity
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