

Mouse NDP52/CALCOCO2 Monoclonal Antibody | anti-CALCOCO2 antibody

Anti-NDP52/CALCOCO2 Antibody Picoband (monoclonal, 9E2F2)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126946	Mouse	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NDP52/CALCOCO2; Monoclonal Antibody; Anti-NDP52/CALCOCO2 Antibody Picoband (monoclonal; 9E2F2); anti-CALCOCO2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	9E2F2
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-CALCOCO2 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human NDP52/CALCOCO2 recombinant protein (Position: M1-L446).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of MCF-7 cells using anti-NDP52/CALCOCO2 antibody (AAA126946). Overlay histogram showing MCF-7 cells stained with AAA126946 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-NDP52/CALCOCO2 Antibody (AAA126946, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of NDP52/CALCOCO2 using anti-NDP52/CALCOCO2 antibody (AAA126946). NDP52/CALCOCO2 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL mouse anti-NDP52/CALCOCO2 Antibody (AAA126946) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of NDP52/CALCOCO2 using anti-NDP52/CALCOCO2 antibody (AAA126946). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human placenta tissue lysates, Lane 2: human Hela whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: human A549 whole cell lysates, Lane 5: rat testis tissue lysates, Lane 6: mouse testis tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-NDP52/CALCOCO2 antigen affinity purified monoclonal antibody (#AAA126946) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NDP52/CALCOCO2 at approximately 52 kDa. The expected band size for NDP52/CALCOCO2 is at 52 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CALCOCO2 antibody	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.
Product Categories/Family for anti-CALCOCO2 antibody	Primary Antibodies, Mouse Monoclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	386869290
NCBI GeneID	10241
NCBI Accession #	NP_001248319
NCBI GenBank Nucleotide #	NM_005831
UniProt Accession #	Q13137; Q53FQ5; Q53HB5; Q6IBN9; B2RBT0; B4DDC4; B4DDT4; B4DP36; B4E0C0; E7ENK0; E7ETP5; E9PBE5
Molecular Weight	43,669 Da
NCBI Official Full Name	calcium-binding and coiled-coil domain-containing protein 2 isoform 1
NCBI Official Synonym Full Names	calcium binding and coiled-coil domain 2
NCBI Official Symbol	CALCOCO2
NCBI Official Synonym Symbols	NDP52
NCBI Protein Information	calcium-binding and coiled-coil domain-containing protein 2; antigen nuclear dot 52 kDa protein; nuclear domain 10 protein 52; nuclear domain 10 protein NDP52; nuclear dot protein 52
UniProt Protein Name	Calcium-binding and coiled-coil domain-containing protein 2
UniProt Gene Name	CALCOCO2
UniProt Synonym Gene Names	NDP52; Nuclear domain 10 protein 52
UniProt Entry Name	CACO2_HUMAN

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