

Rabbit CALCOCO2 Polyclonal Antibody | anti-CALCOCO2 antibody

CALCOCO2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323184	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

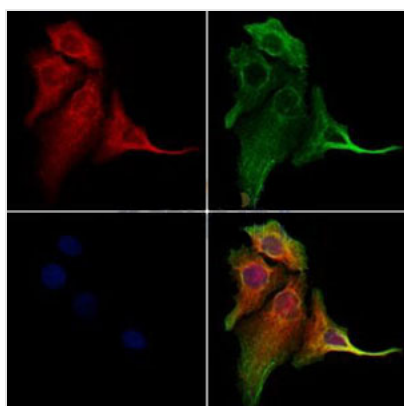
PRODUCT SYNONYMS

CALCOCO2; Polyclonal Antibody; CALCOCO2 Antibody; anti-CALCOCO2 antibody

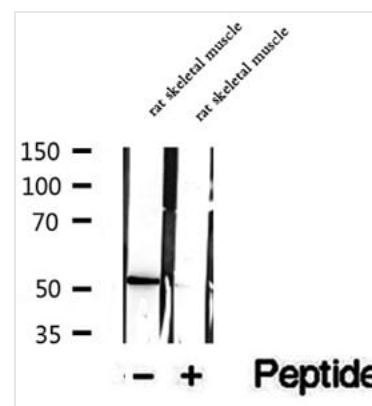
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	CALCOCO2 antibody detects endogenous levels of CALCOCO2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	470
Applicable Applications for anti-CALCOCO2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CALCOCO2.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

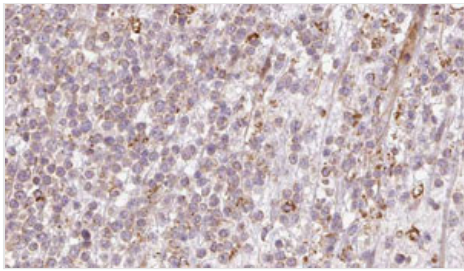
IMAGES


IF (Immunofluorescence)

AAA323184 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab (AAA323184 1:200) and mouse anti-beta tubulin Ab (1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG (H+L) Ab (Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab (Green) were used as the secondary Ab.

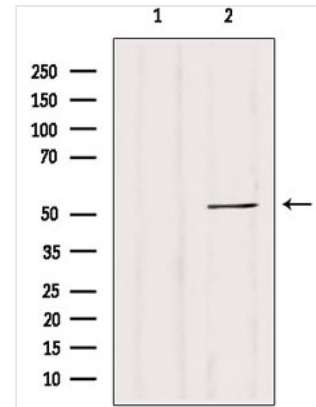

WB (Western Blot)

Western blot analysis of extracts of rat skeletal muscle tissue, using CALCOCO2 antibody.



IHC (Immunohistochemistry)

AAA323184 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from 293, using CALCOCO2 antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CALCOCO2 antibody

Function: 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 (PubMed:22246324). Initially orchestrates bacteria targeting to autophagosomes and subsequently ensures pathogen degradation by regulating pathogen-containing autophagosome maturation (PubMed:23022382, PubMed:25771791). 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 (PubMed:23022382, PubMed:25771791). May play a role in ruffle formation and actin cytoskeleton organization and seems to negatively regulate constitutive secretion (PubMed:17635994).

Similarity: The MYO6-binding domain is required for autophagy-mediated degradation of infecting bacteria such as *Salmonella typhimurium*, but not for bacteria targeting to autophagosomes. The CLIR (LC3C-interacting region) motif is required for interaction with MAP1LC3C, but dispensable for CALCOCO2-mediated autophagosome maturation. The LIR-like motif is required for interaction with MAP1LC3A, MAP1LC3B and GABARAPL2, as well as for CALCOCO2-mediated autophagosome maturation. The LGALS8-binding domain is essential for the recruitment to cytosol-exposed infecting bacteria. Belongs to the CALCOCO family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	386869290
NCBI GeneID	10241
NCBI Accession #	NP_001248319.1
NCBI GenBank Nucleotide #	NM_001261390.1
UniProt Accession #	Q13137; Q53FQ5; Q53HB5; Q6IBN9; B2RBT0; B4DDC4; B4DDT4; B4DP36; B4E0C0; E7ENK0; E7ETP5; E9PBE5
Molecular Weight	Observed: 52 kDa
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
UniProt Protein Name	Calcium-binding and coiled-coil domain-containing protein 2
UniProt Gene Name	CALCOCO2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/calco2-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/323184>