

Rabbit Dcp2 Polyclonal Antibody | anti-DCP2 antibody

Dcp2 Antibody

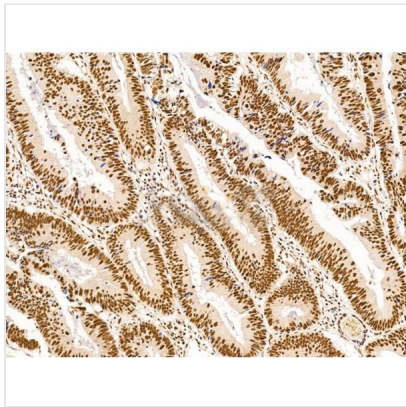
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31251	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Xenopus(88%)	ELISA

PRODUCT SYNONYMS

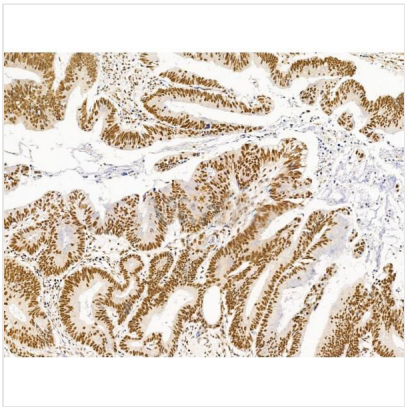
Dcp2; Polyclonal Antibody; Dcp2 Antibody; DCP2; DCP2 decapping enzyme homolog (S. cerevisiae); S. cerevisiae; homolog of; DCP2_HUMAN; decapping enzyme 2; decapping enzyme homolog (S. cerevisiae); FLJ33245; hDpc; m7GpppN-mRNA hydrolase; mRNA decapping enzyme 2; mRNA-decapping enzyme 2; Nucleoside diphosphate-linked moiety X motif 20; nudix (nucleoside diphosphate linked moiety X)-type motif 20; Nudix motif 20; NUDT20; anti-DCP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Xenopus(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Dcp2 Antibody detects endogenous levels of total Dcp2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	420
Applicable Applications for anti-DCP2 antibody	ELISA
Application Notes	WB: 1:500-1:2000 IF: 1:100-1:500 ICC: 1:100-1:500 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Dcp2, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



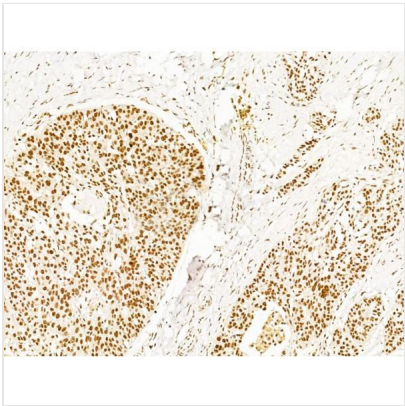
IHC (Immunohistochemistry-Paraffin)
AAA31251 at 1/100 staining Human colorectal cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



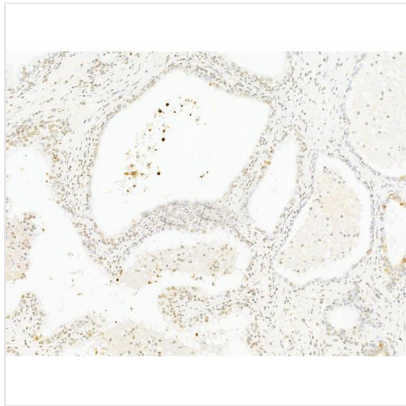
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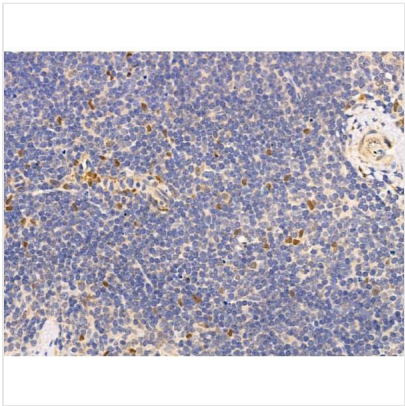
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IHC (Immunohistochemistry-Paraffin)
AAA31251 at 1/100 staining Human ovarian cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31251 at 1/100 staining Human ovarian cancer 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 primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31251 at 1/100 staining Mouse spleen 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 primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-DCP2 antibody	Function: Decapping metalloenzyme that catalyzes the cleavage of the cap structure on mRNAs (PubMed:12417715, PubMed:12218187, PubMed:12923261, PubMed:21070968, PubMed:28002401). Removes the 7-methyl guanine cap structure from mRNA molecules, yielding a 5'-phosphorylated mRNA fragment and 7m-GDP (PubMed:12486012, PubMed:12923261, PubMed:21070968, PubMed:28002401). Necessary for the degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay (PubMed:14527413). Plays a role in replication-dependent histone mRNA degradation (PubMed:18172165). Has higher activity towards mRNAs that lack a poly(A) tail (PubMed:21070968). Has no activity towards a cap structure lacking an RNA moiety (PubMed:21070968). The presence of a N(6)-methyladenosine methylation at the second transcribed position of mRNAs (N(6),2'-O-dimethyladenosine cap; m6A(m)) provides resistance to DCP2-mediated decapping (PubMed:28002401). Blocks autophagy in nutrient-rich conditions by repressing the expression of ATG-related genes through degradation of their transcripts (PubMed:26098573). Post Translational Modifications: Phosphorylated at ser-249 in a MTOR-dependent manner (PubMed:26098573). Subcellular Location: Cytoplasm>P-body. Nucleus. Note: Predominantly cytoplasmic, in processing bodies (PB) (PubMed:15273322). A minor amount is nuclear (PubMed:15273322). Tissue Specificity: Expressed in brain and testis. Not detected in heart (at protein level). Subunit Structure: Found in a mRNA decay complex with LSM1, LSM3, LSM4, EXOSC2, EXOSC4, EXOSC10, PARN, XRN1, CNOT6, UPF1, UPF2 and UPF3B (PubMed:12417715, PubMed:12515382, PubMed:14527413). Forms a complex with DCP1A, EDC3, DDX6 and EDC4/HEDLS, within this complex directly interacts with EDC4/HEDLS (PubMed:15231747, PubMed:15067023, PubMed:16364915). Interacts with DPC1B (PubMed:15231747). Interacts (via N-terminus and C-terminus) with TRIM21 (via N-terminus and C-terminus) (PubMed:18361920). Associates with polysomes (PubMed:12218187). Interacts with LIMD1, WTIP and AJUBA (PubMed:20616046). Interacts with DDX17 in an RNA-dependent manner (PubMed:21876179). Interacts with ZC3HAV1 (PubMed:21876179). Interacts with APOBEC3G in an RNA-dependent manner (PubMed:16699599). Interacts with ZFP36L1 (via N-terminus) (PubMed:15687258). Interacts with NBDY (PubMed:27918561). Similarity: Belongs to the Nudix hydrolase family. DCP2 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	31542498
NCBI GeneID	167227
NCBI Accession #	NP_689837
NCBI GenBank Nucleotide #	NP_689837.2
UniProt Accession #	Q8IU60
Molecular Weight	Observed Molecular Weight: (Observed)48kD, 60kD. Predicted Molecular Weight: (Calculated)48kDa.
NCBI Official Full Name	m7GpppN-mRNA hydrolase isoform 1
NCBI Official Synonym Full Names	decapping mRNA 2
NCBI Official Symbol	DCP2
NCBI Official Synonym Symbols	NUDT20
NCBI Protein Information	m7GpppN-mRNA hydrolase
UniProt Protein Name	m7GpppN-mRNA hydrolase
UniProt Gene Name	DCP2
UniProt Synonym Gene Names	NUDT20; Nudix motif 20; hDpc
UniProt Entry Name	DCP2_HUMAN

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://www.aaabiotech.com/polyclonal/dcp2-antibody-elisa/31251>