

**SDCCAG1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18740a**

**Specification**

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**SDCCAG1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O60524</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	122954
Antigen Region	236-264

**SDCCAG1 Antibody (N-term) - Additional Information**

**Gene ID** 9147

**Other Names**

Nuclear export mediator factor NEMF, Antigen NY-CO-1, Serologically defined colon cancer antigen 1, NEMF, SDCCAG1

**Target/Specificity**

This SDCCAG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 236-264 amino acids from the N-terminal region of human SDCCAG1.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SDCCAG1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**SDCCAG1 Antibody (N-term) - Protein Information**

**Name** NEMF {ECO:0000303|PubMed:33048237, ECO:0000312|HGNC:HGNC:10663}

**Function** Key component of the ribosome quality control complex (RQC), a ribosome-associated

complex that mediates the extraction of incompletely synthesized nascent chains from stalled ribosomes as well as their ubiquitin-mediated proteasomal degradation (PubMed:[25578875](#), PubMed:[32726578](#), PubMed:[33406423](#), PubMed:[33909987](#)). Thereby, frees 60S subunit ribosomes from the stalled translation complex and prevents the accumulation of nascent polypeptide chains that are potentially toxic for the cell (PubMed:[25578875](#), PubMed:[33406423](#), PubMed:[33909987](#)). Within the RQC complex, NEMF specifically binds stalled 60S ribosomal subunits by recognizing an exposed, nascent chain-conjugated tRNA moiety and promotes the recruitment of LTN1 to stalled 60S subunits (PubMed:[25578875](#)). Following binding to stalled 60S ribosomal subunits, NEMF mediates CAT tailing by recruiting alanine-charged tRNA to the A- site and directing the elongation of stalled nascent chains independently of mRNA or 40S subunits, leading to non-templated C-terminal alanine extensions (CAT tails) (PubMed:[33406423](#), PubMed:[33909987](#)). Mainly recruits alanine-charged tRNAs, but can also other amino acid-charged tRNAs (PubMed:[33406423](#), PubMed:[33909987](#)). CAT tailing is required to promote ubiquitination of stalled nascent chains by different E3 ubiquitin-protein ligases (PubMed:[33909987](#)). In the canonical RQC pathway (RQC-L), CAT tailing facilitates LTN1-dependent ubiquitination by exposing lysine residues that would otherwise remain buried in the ribosomal exit tunnel (By similarity). In the alternative RQC pathway (RQC-C) CAT tailing creates an C-degron mainly composed of alanine that is recognized by the CRL2(KLHDC10) and RCHY1/PIRH2 E3 ligases, leading to ubiquitination and degradation of stalled nascent chains (PubMed:[33909987](#)). NEMF may also indirectly play a role in nuclear export (PubMed:[16103875](#)).

**Cellular Location**

Cytoplasm, cytosol. Nucleus

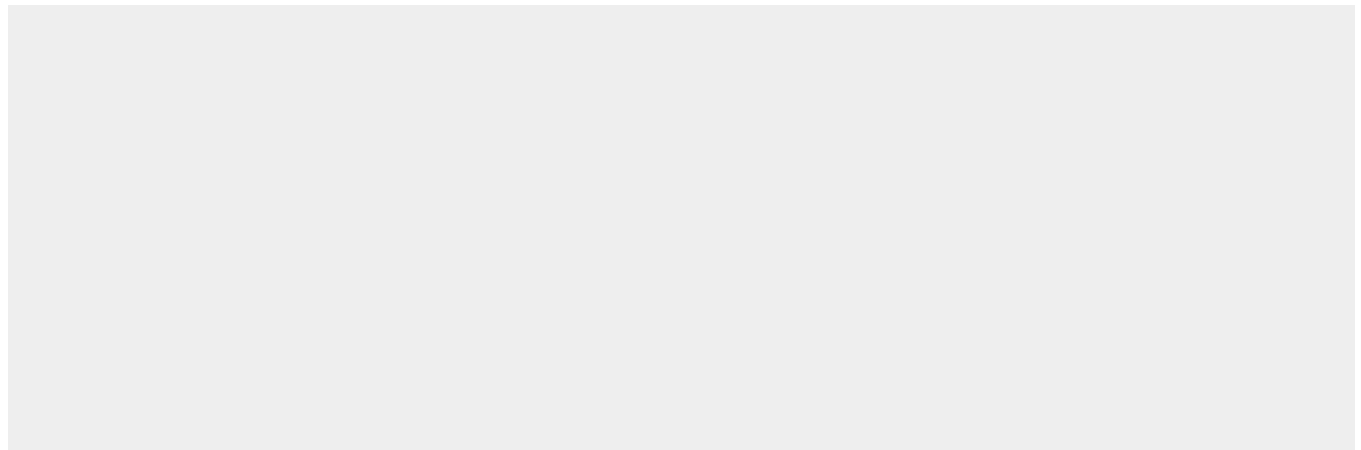
**Tissue Location**

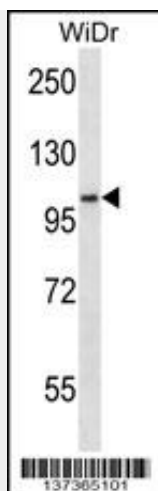
Expressed in brain, heart, liver, lung, spleen, and skeletal muscle. Also expressed at lower levels in stomach and testis

**SDCCAG1 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SDCCAG1 Antibody (N-term) - Images**



SDCCAG1 Antibody (N-term)(Cat. #AP18740a) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the SDCCAG1 antibody detected the SDCCAG1 protein (arrow).

#### **SDCCAG1 Antibody (N-term) - Background**

The function of this protein remains unknown.