

## OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com

## AP52830PU-N OriGene EU

Acris Antibodies GmbH Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

## Polyclonal Antibody to ND2 (N-term) - Aff - Purified

Alternate names:	MT, MT-, NADH dehydrogenase subunit 2, NADH-ubiquinone oxidoreductase chain 2, NADH2
Catalog No.:	AP52830PU-N
Quantity:	0.4 ml
Concentration:	lot specific
Background:	ND2 is core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. This protein complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.
Uniprot ID:	<u>P03891</u>
NCBI:	<u>YP_003024027</u>
GenelD:	<u>4536</u>
Host / Isotype:	Rabbit / Ig
Immunogen:	KLH conjugated synthetic peptide between 38~67 amino acids from the N-terminal region of human ND2.
Format:	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Protein A column, followed by peptide affinity purification <b>Buffer System:</b> PBS containing 0.09% (W/V) Sodium Azide as preservative
Applications:	ELISA: 1/1000. Western Blot: 1/100-1/500. Flow Cytometry: 1/10-1/50. Immunohistochemistry on Paraffin Sections: 1/50-1/100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes Human ND2 (N-term).
Add. Information:	Molecular Weight: 38961 Da
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Saitoh,K., et.al., J. Mol. Evol. 63 (6), 826-841 (2006)

**For research and in vitro use only. Not for diagnostic or therapeutic work.** Material Safety Datasheets are available at www.acris-antibodies.com or on request.



OG/20130805

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



**Pictures:** 

## AP52830PU-N: Polyclonal Antibody to ND2 (N-term) - Aff - Purified

Formalin-fixed and paraffin-embedded human brain tissue reacted with ND2 Antibody (N-term) Cat.-No AP52830PU-N, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Western blot analysis of ND2 Antibody (Nterm) Cat.-No AP52830PU-N in K562 cell line lysates (35ug/lane). ND2 (arrow) was detected using the purified Pab.





Flow cytometric analysis of k562 cells using ND2 Antibody (N-term) Cat.-No AP52830PU-N (bottom histogram) compared to a negative control cell (top histogram). FITCconjugated goat-anti-rabbit secondary antibodies were used for the analysis.





OG/20130805