

## Product datasheet

# Anti-ND6 antibody ab81212

★★★★☆ 4 Abreviews 8 References 2 Images

### Overview

<b>Product name</b>	Anti-ND6 antibody
<b>Description</b>	Rabbit polyclonal to ND6
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Pig, Chimpanzee
<b>Immunogen</b>	Synthetic peptide corresponding to Human ND6 aa 110-159 (internal sequence). Sequence: DGVVVVNFNSVGSWMIYEGEGSGLIREDPIGAGALY DYGRWLVVVTGWT  Database link: <a href="#">NP_536854</a>  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Human fetal lung lysate.
<b>General notes</b>	This product was previously labelled as NADH Dehydrogenase subunit 6

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab81212** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 1 µg/ml.
WB	★★★★☆	Use a concentration of 1 µg/ml. Predicted molecular weight: 19 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

## Target

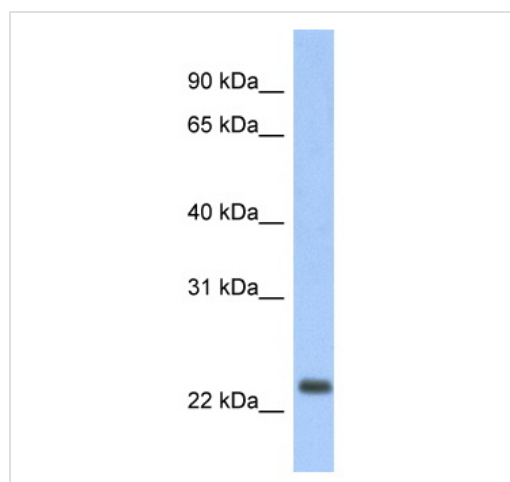
### Relevance

NADH Dehydrogenase subunit 6 (MTND6) is 1 of the 7 mitochondrial DNA (mtDNA) encoded subunits (MTND1, MTND2, MTND3, MTND4L, MTND4, MTND5, MTND6) included among the approximately 41 polypeptides of respiratory Complex I. Complex I accepts electrons from NADH, transfers them to ubiquinone (Coenzyme Q10), and uses the energy released to pump protons across the mitochondria inner membrane. MTND6 has been proposed to be a component of the iron-protein fragment. The predicted polypeptide has a molecular weight of 18.6 kD. Its apparent MW on SDS-polyacrylamide gels (PAGE) using Tris-glycine buffer is 16.7 kD, and the apparent MW on urea-phosphate gels is also close to the predicted molecular weight.

### Cellular localization

Mitochondrion membrane; Multi-pass membrane protein.

## Images



Western blot - Anti-ND6 antibody (ab81212)

Anti-ND6 antibody (ab81212) at 1 µg/ml (in 5% skim milk / PBS buffer) + Human fetal lung lysate at 10 µg

### Secondary

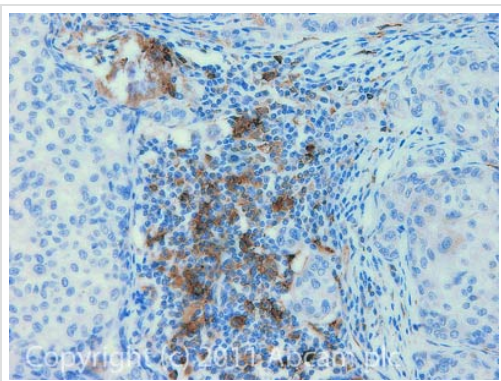
HRP conjugated anti-Rabbit IgG at 1/50000 dilution

**Predicted band size:** 19 kDa

**Observed band size:** 24 kDa

[why is the actual band size different from the predicted?](#)

Gel concentration: 12%



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ND6 antibody (ab81212)

IHC image of ab81212 staining in Human breast cancer formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab81212, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors