**Product datasheet**

**Anti-NDRG1 antibody ab37897**

★★★★★ 1 Abreviews  20 References  1 Image

Overview

- **Product name**: Anti-NDRG1 antibody
- **Description**: Goat polyclonal to NDRG1
- **Host species**: Goat
- **Tested applications**: Suitable for: WB, ELISA, IHC-P
- **Species reactivity**: Reacts with: Human
  - Predicted to work with: Mouse, Rat, Dog
- **Immunogen**: Synthetic peptide:
  - GNSAGPKSMEVSC, corresponding to C terminal amino acids 382-394 of Human NDRG1

Properties

- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
- **Storage buffer**: Preservative: 0.02% Sodium Azide
  - Constituents: 0.5% BSA, Tris saline. pH 7.3
- **Purity**: Immunogen affinity purified
- **Purification notes**: Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
- **Clonality**: Polyclonal
- **Isotype**: IgG

Applications

Our Abpromise guarantee covers the use of ab37897 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
May have a growth inhibitory role.

Tissue specificity
Ubiquitous; expressed most prominently in placental membranes and prostate, kidney, small intestine, and ovary tissues. Reduced expression in adenocarcinomas compared to normal tissues. In colon, prostate and placental membranes, the cells that border the lumen show the highest expression.

Involvement in disease
Defects in NDRG1 are the cause of Charcot-Marie-Tooth disease type 4D (CMT4D) [MIM:601455]; also known as hereditary motor and sensory neuropathy Lom type (HMSNL). CMT4D is a recessive form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy and primary peripheral axonal neuropathy. Demyelinating CMT neuropathies are characterized by severely reduced nerve conduction velocities (less than 38 m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet. By convention, autosomal recessive forms of demyelinating Charcot-Marie-Tooth disease are designated CMT4.

Sequence similarities
Belongs to the NDRG family.

Cellular localization
Cytoplasm. Nucleus. Cell membrane. Whereas in prostate epithelium and placental chorion it is located in both the cytoplasm and the nucleus, nuclear staining is not observed in colon epithelium cells. Instead its localization changes from the cytoplasm to the plasma membrane during differentiation of colon carcinoma cell lines in vitro.

Target

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 0.1 - 0.3 µg/ml. Predicted molecular weight: 43 kDa.</td>
</tr>
<tr>
<td>ELISA</td>
<td>1/3200</td>
<td>Peptide ELISA</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

Images
Anti-NDRG1 antibody (ab37897) at 0.1 µg/ml + Human Kidney lysate (RIPA buffer, 35µg total protein per lane).

**Predicted band size:** 43 kDa  
**Observed band size:** 48 kDa

Primary incubated for 1 hour. Detected by western blot using chemiluminescence. A minor band of unknown identity was also consistently observed at 20kDa. This band was successfully blocked by incubation with the immunising peptide.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

---

**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 [http://www.abcam.com/abpromise](http://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