

Anti-NDRG3 Picoband Antibody
Catalog # ABO10345

Specification

Anti-NDRG3 Picoband Antibody - Product Information

Application	WB, IHC
Primary Accession	Q9UGV2
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Protein NDRG3(NDRG3) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-NDRG3 Picoband Antibody - Additional Information

Gene ID 57446

Other Names

Protein NDRG3, N-myc downstream-regulated gene 3 protein, NDRG3

Calculated MW

41409 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Tissue Specificity

Ubiquitous. Highly expressed in brain. .

Protein Name

Protein NDRG3

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E.coli-derived human NDRG3 recombinant protein (Position: L181-R239). Human NDRG3 shares 93.1% and 94.9% amino acid (aa) sequence identity with mouse and rat NDRG3, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-NDRG3 Picoband Antibody - Protein Information

Name NDRG3

Tissue Location

Ubiquitous. Highly expressed in brain.

Anti-NDRG3 Picoband Antibody - 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](#)

Anti-NDRG3 Picoband Antibody - Images

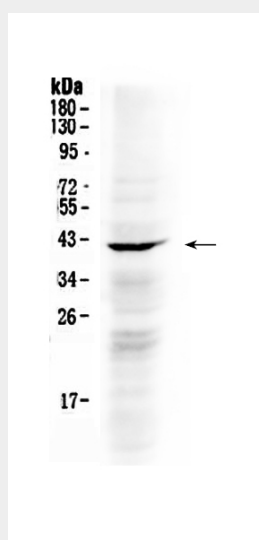


Figure 1. Western blot analysis of NDRG3 using anti- NDRG3 antibody (ABO10345). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: COLO320 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- NDRG3 antigen

affinity purified polyclonal antibody (Catalog # ABO10345) at 0.5 μ g/mL overnight at 4 $^{\circ}$ C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NDRG3 at approximately 41KD. The expected band size for NDRG3 is at 41KD.

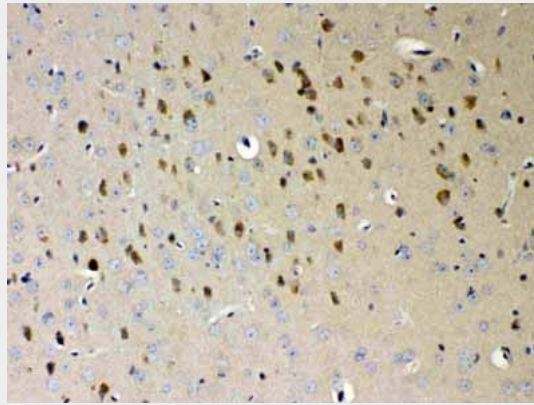


Figure 2. IHC analysis of NDRG3 using anti- NDRG3 antibody (ABO10345).NDRG3 was detected in paraffin-embedded section of mouse brain tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/ml rabbit anti- NDRG3 Antibody (ABO10345) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

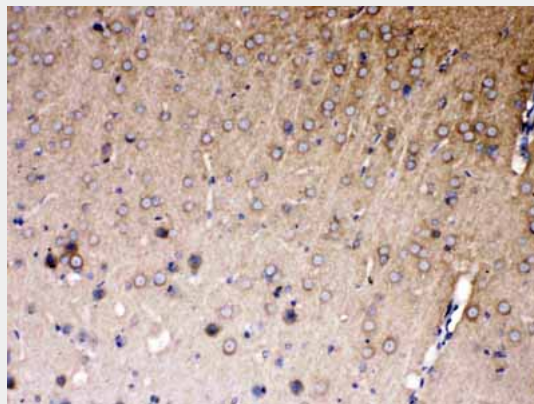


Figure 3. IHC analysis of NDRG3 using anti- NDRG3 antibody (ABO10345).NDRG3 was detected in paraffin-embedded section of rat brain tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/ml rabbit anti- NDRG3 Antibody (ABO10345) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

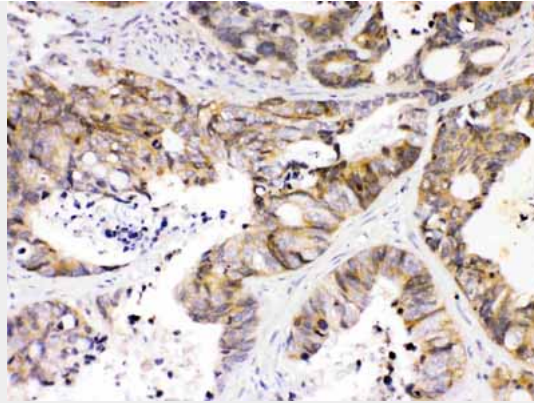


Figure 4. IHC analysis of NDRG3 using anti- NDRG3 antibody (ABO10345).NDRG3 was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 $\frac{1}{4}$ g/ml rabbit anti- NDRG3 Antibody (ABO10345) overnight at 4 ^\circ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 ^\circ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

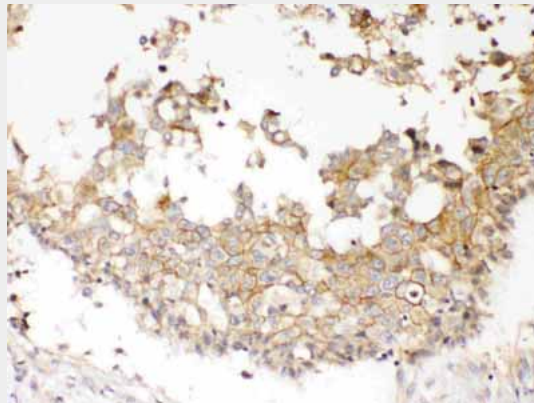


Figure 5. IHC analysis of NDRG3 using anti- NDRG3 antibody (ABO10345).NDRG3 was detected in paraffin-embedded section of human mammary cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 $\frac{1}{4}$ g/ml rabbit anti- NDRG3 Antibody (ABO10345) overnight at 4 ^\circ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 ^\circ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Anti-NDRG3 Picoband Antibody - Background

In studies of the NDRG gene family in the human, novel mouse sequences of Ndr2 and Ndr3 were used to search the human genome databases. This confirmed the existence of a human NDRG3 gene, homologous to mouse Ndr3. The 3 known human NDRG proteins show considerable homology, with 54% amino acid sequence identity between NDRG1 and NDRG2, 67% between NDRG1 and NDRG3, and 58% between NDRG2 and NDRG3. The NDRG3 gene was represented by 86 ESTs and a genomic clone from chromosome 20q11.21-q11.23. This provisional chromosomal localization was confirmed by electronic PCR.