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Anti-NDRG3 Picoband Antibody

Catalog # ABO10345

Product Information

Application	WB, IHC-P
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.

Additional Information

Gene ID	57446
Other Names	Protein NDRG3, N-myc downstream-regulated gene 3 protein, NDRG3
Calculated MW	41409
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Human
Tissue Specificity	Ubiquitous. Highly expressed in brain. .
Source	Eukaryota
Protein Name	Protein NDRG3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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 r˚Constitution, 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.

Protein Information

Name NDRG3

Tissue Location Ubiquitous. Highly expressed in brain.

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.

Images

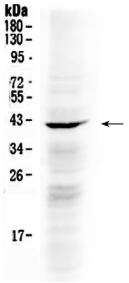


Figure 1. Western blot analysis of NDRG3 using anti-NDRG3 antibody (ABO10345). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: COLO320 whole 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 □¼g/mL overnight at 4 □°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.

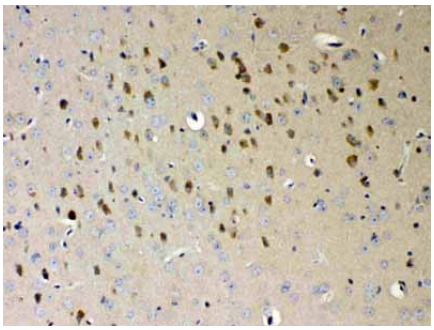
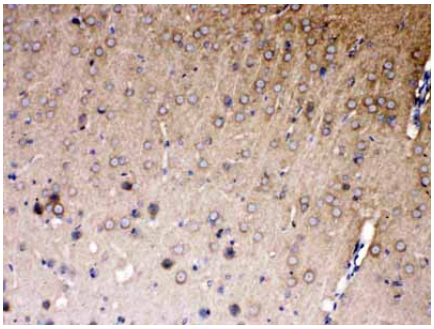


Figure 2. IHC analysis of NDRG3 using anti- NDRG3 antibody (ABO10345).NDRG3 was detected in paraffin-embedded section of mouse brain tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 □¼g/ml rabbit anti- NDRG3 Antibody (ABO10345) overnight at 4 □°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 □°C. The tissue section was developed using Strepavidin-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



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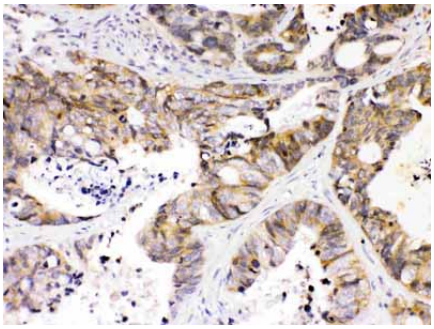

Figure 4. IHC analysis of NDRG3 using anti- NDRG3 antibody (ABO10345).NDRG3 was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 □¼g/ml rabbit anti- NDRG3 Antibody (ABO10345) overnight at 4 □°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 □°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

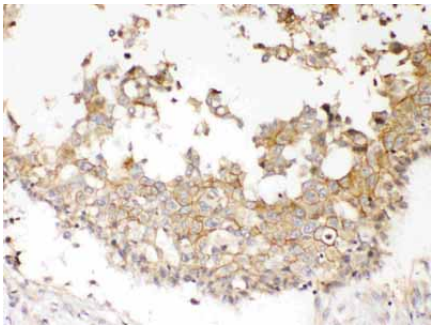

Figure 5. IHC analysis of NDRG3 using anti- NDRG3 antibody (ABO10345).NDRG3 was detected in paraffin-embedded section of human mammary cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 □¼g/ml rabbit anti- NDRG3 Antibody (ABO10345) overnight at 4 □°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 □°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.