

## Anti-Protein NDRG2 NDRG2 Antibody Picoband®

Catalog Number: PA2148

### About NDRG2

Protein NDRG2, also known as KIAA1248, is a protein that in humans is encoded by the NDRG2 gene. This gene is a member of the N-myc downregulated gene family which belongs to the alpha/beta hydrolase superfamily. This gene is mapped to 14q11.2. The protein encoded by this gene is a cytoplasmic protein that may play a role in neurite outgrowth. This gene may be involved in glioblastoma carcinogenesis. It contributes to the regulation of the WNT signaling pathway. This gene may be involved in dendritic cell and neuron differentiation.

### Overview

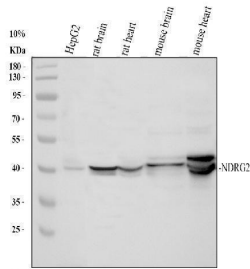
Product Name	Anti-Protein NDRG2 NDRG2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Protein NDRG2 NDRG2 Antibody catalog # PA2148. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9UN36

### Technical Details

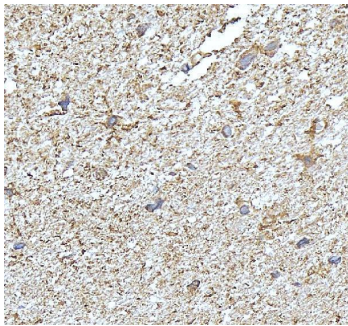
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human NDRG2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human

## Anti-Protein NDRG2 NDRG2 Antibody Picoband® (PA2148) Images



Western blot analysis of NDRG2 using anti-NDRG2 antibody (PA2148). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: rat brain tissue lysates, Lane 3: rat heart tissue lysates, Lane 4: mouse brain tissue lysates, Lane 5: mouse heart tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-NDRG2 antigen affinity purified polyclonal antibody (PA2148) at 0.5 ug/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 (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for NDRG2 at approximately 41 kDa. The expected band size for NDRG2 is at 41 kDa.



IHC analysis of NDRG2 using anti-NDRG2 antibody (PA2148). NDRG2 was detected in a paraffin-embedded section of human brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-NDRG2 Antibody (PA2148) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

## 1 Publications Citing This Product

1. PubMed ID: 21193923, Sun Z, Shen L, Sun X, Tong G, Sun D, Han T, Yang G, Zhang J, Cao F, Yao L, Wang H. Histochem Cell Biol. 2011 Jan;135(1):27-35. Doi: 10.1007/S00418-010-0776-9. Epub 2010 Dec 31. Variation Of NdrG2 And C-Myc Expression In Rat Heart During The Acute

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