

Anti-Cullin 3/CUL3 Antibody Picoband®

Catalog Number: PA1939

About CUL3

Cullin-3 (Cul 3), is a protein that in humans is encoded by the CUL3 gene. Kipreos et al. (1996) identified a conserved gene family, designated cullins, with at least 5 members in nematodes, 6 in humans, and 3 in *S. cerevisiae*. Human CUL3 is an ortholog of nematode cul3. Hartz (2012) mapped the CUL3 gene to chromosome 2q36.2 based on an alignment of the CUL3 sequence with the genomic sequence (GRCh37). Sumara et al. (2007) found that KLHL9, KLHL13, and CUL3 interacted directly in a 370-kD protein complex in HeLa cell lysates. Rondou et al. (2008) showed that interaction between KLHL12 and the CUL3 ubiquitin ligase complex directed ubiquitination of dopamine receptor D4 (DRD4). KLHL12 interacted directly with CUL3 and with the polymorphic intracellular loop-3 of D4. By immunoprecipitation analysis of HeLa cells and HCT116 human colon carcinoma cells expressing epitope-tagged proteins, Kigoshi et al. (2011) showed that KLHL7 interacted with CUL3 and ROC1 (RBX1).

Overview

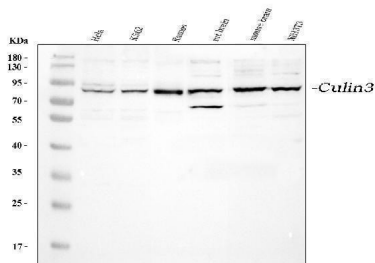
Product Name	Anti-Cullin 3/CUL3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cullin 3/CUL3 Antibody catalog # PA1939. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior 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	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *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	Q13618

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Cullin 3, identical to the related rat and mouse sequences.
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

Anti-Cullin 3/CUL3 Antibody Picoband® (PA1939) Images



Western blot analysis of Cullin3 using anti-Cullin3 antibody (PA1939). 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 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human Ramos whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: mouse brain tissue lysates, Lane 6: mouse NIH/3T3 whole cell 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-Cullin3 antigen affinity purified polyclonal antibody (Catalog # PA1939) 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 at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Cullin3 at approximately 89 kDa. The expected band size for Cullin3 is at 89 kDa.

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