For Research Use Only

CRBN Polyclonal ANTIBODY

Catalog Number: 11435-1-AP

Basic Information

- **Catalog Number:** 11435-1-AP
- **Size:** 26 μg/150 μl
- **Source:** Rabbit
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG1951
- **GenBank Accession Number:** BC017419
- **GeneID (NCBI):** 51185
- **Full Name:** cereblon
- **Calculated MW:** 442aa, 51 kDa
- **Observed MW:** 51-55 kDa

Recommended Dilutions:
- **WB:** 1:500-1:1000
- **IHC:** 1:100-1:400
- **IF:** 1:50-1:500

Applications

- **Tested Applications:** IF, IHC, WB, ELISA
- **Cited Applications:** IHC, IP, WB
- **Species Specificity:** human, mouse
- **Species:** human, mouse

- **Note-IHC:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

CRBN plays an important role in assembly and surface expression of functional BK(Ca) channels. The mutation of human cereblon gene (CRBN) is related with mild mental retardation, and causes ARNSID (nonsyndromal intellectual disability) by disturbing the developmental regulation of BK(Ca) in brain regions that are critical for memory and learning. CRBN is also identified as important thalidomide-binding protein for limb outgrowth in zebrafish and chicks. It can be detected a band above 51 kDa (maybe 55 kDa) in HT22 cells (PMID: 21232561).

Notable Publications

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<tr>
<th>Author</th>
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<th>Journal</th>
<th>Application</th>
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<tbody>
<tr>
<td>Greenberg Alexandra J AJ</td>
<td>23992230</td>
<td>Eur J Haematol</td>
<td>WB</td>
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<tr>
<td>Chiara Maniaci</td>
<td>25016234</td>
<td>Nat Commun</td>
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<td>Gerard L Ellen</td>
<td>30431433</td>
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Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:
- T 1 (888) 4PTGLAB (1-888-478-4522) toll free in USA, or 1(312) 405-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Mouse heart tissue were subjected to SDS PAGE followed by western blot with 11435-1-AP (CRBN antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 11435-1-AP (CRBN Antibody) at dilution of 1:200 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 11435-1-AP (CRBN Antibody) at dilution of 1:200 (under 40x lens).

Immunofluorescent analysis of (-20°C Ethanol) fixed COLO 320 cells using 11435-1-AP (CRBN antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).