

Rabbit Anti-Cereblon/CRBN Polyclonal: RC0186

Intended Use: For Research Use Only

Description: Cereblon or CRBN is a 442 amino acid protein which is highly concentrated in human brain tissue. Cereblon functions energy metabolism, learning and memory. Cereblon acts as a protease in mitochondria and regulates the assembly of KCNT1, as well as the surface expression of KCNT1 in brain regions known to affect memory and learning, such as the hippocampus. The gene encoding Cereblon belongs to a family of ATP-dependent ion proteases that play a role in membrane trafficking and proteolysis. Defects in the Cereblon gene are associated with mild mental retardation.

Specifications

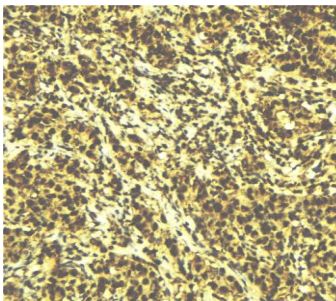
Clone: Polyclonal
Source: Rabbit
Isotype: IgG
Reactivity: Human, mouse, rat
Immunogen: Synthesized peptide derived from human CRBN
Localization: Cytoplasm
Formulation: Antibody PBS pH 7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, WB
Package:

| Description | Catalog No. | Size |
|---------------------------------------|-------------|------|
| Cereblon/CRBN Polyclonal Concentrated | RC0186 | 1 ml |

IHC Procedure*

Positive Control Tissue: Thyroid and heart tissues
Concentrated Dilution: 10-50
Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp: 60-90 minutes @ 37°C
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human breast cancer stained with anti-Cereblon using DAB

References:

1. Proteasome Activation by Small Molecules. Leestemaker Y, et al. Cell Chem Biol 24:725-736.e7, 2017.
2. Cereblon negatively regulates TLR4 signaling through the attenuation of ubiquitination of TRAF6. Min Y, et al. Cell Death Dis 7:e2313, 2016.
3. Measuring cereblon as a biomarker of response or resistance to lenalidomide and pomalidomide requires use of standardized reagents and understanding of gene complexity. Gandhi AK, et al. Br J Haematol 164:233-44, 2014.