

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CRBN in immunocytochemistry and immunohistochemistry.
Source	Monoclonal Mouse IgG _{2B} Clone # 978015
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide Human CRBN Accession # Q96SW2
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Cereblon (CRBN) is a substrate recognition component of an E3 protein ligase complex which mediates ubiquitination and proteasomal degradation of target proteins. In embryonic development, degradation of regulatory proteins is required for normal limb outgrowth. Thalidomide, a teratogenic drug prescribed to pregnant women in the 1950s, binds to CRBN in the E3 protein ligase complex. Despite its teratogenic effect, CRBN is used to treat multiple myeloma and complications of leprosy. Widely expressed, CRBN may play a role in memory and learning by regulating assembly and surface expression of large-conductance calcium-activated potassium channels in hippocampal neurons. Mutations in the CRBN gene is linked to the Mental Retardation, Autosomal Recessive2a (MR2A) form of mental retardation.

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