Datasheet for ABIN2855453

anti-BTRC antibody

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Overview

Quantity:	100 µL
Target:	BTRC
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BTRC antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human beta-TrCP. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Characteristics:	Rabbit polyclonal antibody to beta-TrCP (beta-transducin repeat containing) beta-TrCP antibody [N1C1]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	BTRC
Alternative Name:	beta-transducin repeat containing E3 ubiquitin protein ligase (BTRC Products)

Target Details

Background:	This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbws class, in addition to an F-box, this protein contains multiple WD-40 repeats. This protein is homologous to Xenopus bTrCP1, yeast Met30, Neurospora Scon2 and Drosophila Slimb proteins. It interacts with HIV-1 Vpu and connects CD4 to the proteolytic machinery. It also associates specifically with phosphorylated IkappaBalpha and beta-catenin destruction motifs, probably functioning in multiple transcriptional programs by activating the NF-kappaB pathway and inhibiting the beta-catenin pathway. Cellular Localization: Cytoplasm
Molecular Weight:	69 kDa
Gene ID:	8945
UniProt:	Q9Y297
Pathways:	Cell Division Cycle, Hedgehog Signaling

Application Details

Application Notes:	WB: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Validation: Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE

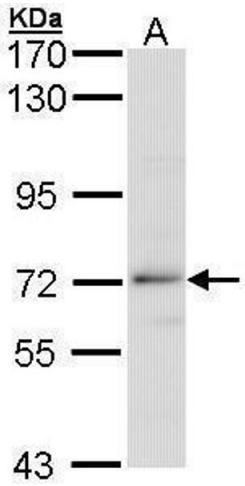
Handling

	which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

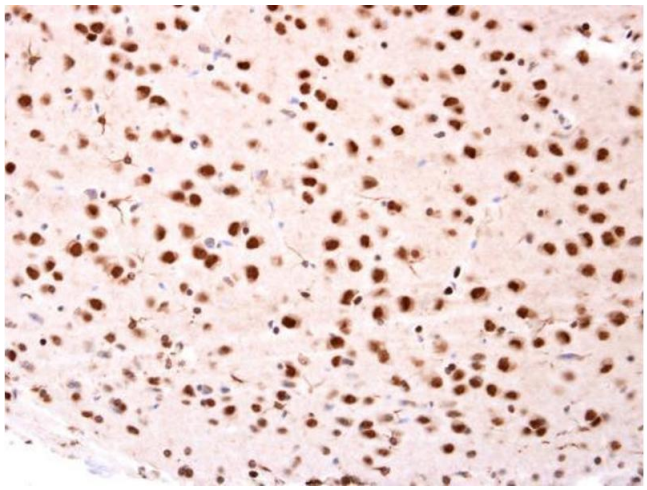
Product cited in:	Lin, Chang, Lee, Campbell, Wang, Shen, Chung, Chang, Chiu, Pan, Lin, Chu, Kung, Cheng, Chang: "REST reduction is essential for hypoxia-induced neuroendocrine differentiation of prostate cancer cells by activating autophagy signaling." in: **Oncotarget**, Vol. 7, Issue 18, pp. 26137-51, (2018) (PubMed).

Images



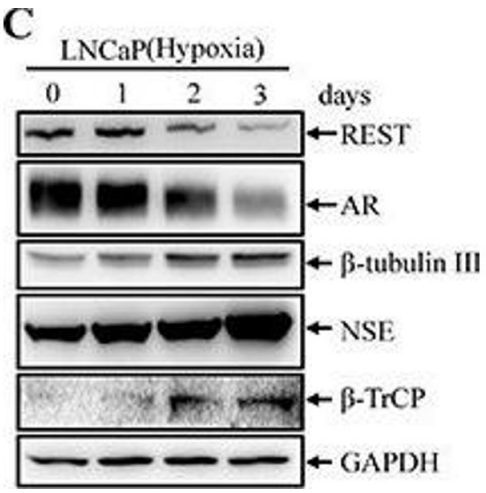
Western Blotting

Image 1. WB Image Sample (30 ug of whole cell lysate) A: 293T 7.5% SDS PAGE antibody diluted at 1:1000



Immunohistochemistry

Image 2. IHC-P Image beta-TrCP antibody [N1C1] detects beta-TrCP protein at nucleus on rat fore brain by immunohistochemical analysis. Sample: Paraffin-embedded rat fore brain. beta-TrCP antibody [N1C1] , dilution: 1:250.



Western Blotting

Image 3. Hypoxia induces NED of LNCaP cells concomitant with down-regulation REST protein levels but not REST mRNA(A) LNCaP cells were treated with hypoxia (2 % O2) for 3 days. Representative photos of control and hypoxia-treated cells were stained with Hoechst. (B) The induced neurite length was assessed using brightfield microscopy images (40x magnification) and quantified by the average from 10 microscopic fields, bars, SD. (C) Total cell lysates (TCLs) were prepared from LNCaP cells treated as described in (A) for 1, 2 and 3 days and then immunoblotted to detect REST, AR, β-tubulin III, NSE, and β-TrCP. GAPDH was used as the loading control. (D) RT-qPCR analysis of total RNA from LNCaP cells treated as described in (A). The relative mRNA level of REST was normalized with B2M. Values from 3 independent experiments are reported as mean ± SD. (E) LNCaP cells were treated with hypoxia for 3 days in the presence or absence of 0.09 μM MG-132. The expression of REST was detected by immunoblotting using anti-REST antibody. GAPDH was used as the loading control. - figure provided by CiteAb. Source: PMID27034167