

Product Datasheet

BRCC3 Antibody - BSA Free

NBP1-76831

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-76831

BRCC3 Antibody - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	35 kDa

Product Description

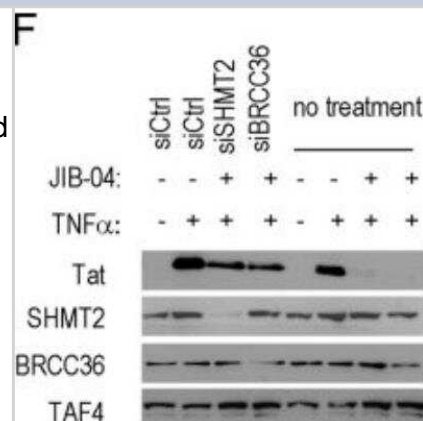
Description	Novus Biologicals Rabbit BRCC3 Antibody - BSA Free (NBP1-76831) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-BRCC3 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	79184
Gene Symbol	BRCC3
Species	Human, Mouse, Rat
Immunogen	Antibody was raised against a 18 amino acid synthetic peptide from near the amino terminus of human BRCC36. The immunogen is located within amino acids 20 - 70 of BRCC36. Amino Acid Sequence: CIGELNDDTRSDSKFAY

Product Application Details

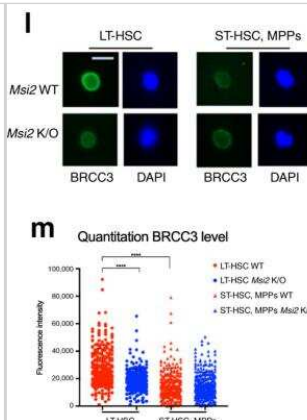
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.5-2 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 2.5 ug/ml, Immunocytochemistry/ Immunofluorescence 20 ug/ml, Immunohistochemistry-Paraffin 2.5 ug/ml, Knockdown Validated

Images

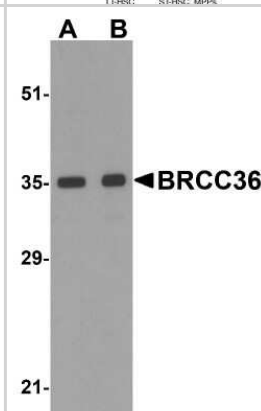
Western Blot: BRCC3 Antibody [NBP1-76831] - Immunoblot analysis of the effect of JIB-04 on Tat protein levels in 2D10 cells depleted of SHMT2 or BRCC36. Image collected and cropped by CiteAb from the following publication ([dx.plos.org/10.1371/journal.ppat.1007071](https://doi.org/10.1371/journal.ppat.1007071)) licensed under a CC-BY license.



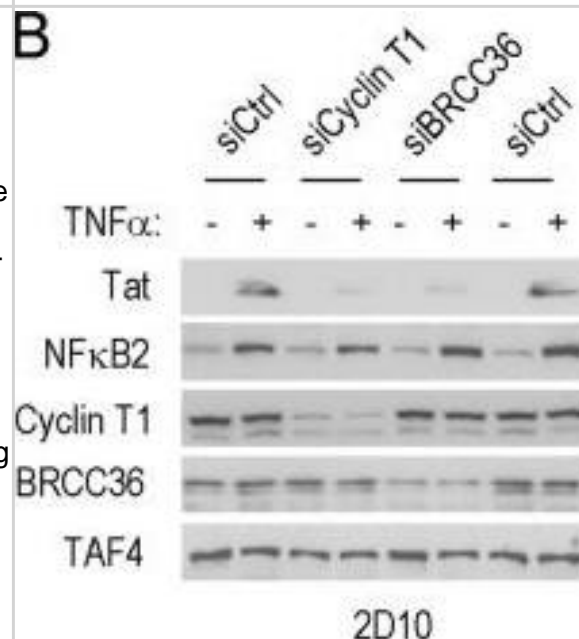
Immunocytochemistry/Immunofluorescence: BRCC3 Antibody [NBP1-76831] - Representative IF images showing BRCC3 signal in LT versus ST and MPPs. Scale bar 5 μ m. m Quantitation of BRCC3 IF signal from l in Msi2 WT and Msi2 K/O. n = 258; 263; 216 and 295 cells for LT Msi2 WT; KO; ST, MPPs Msi2 WT and KO, respectively. Data as mean \pm SEM. Unpaired Student t test, ****p < 0.0001. Image collected and cropped by CiteAb from the following publication (nature.com/articles/s41467-020-15814-8) licensed under a CC-BY license.



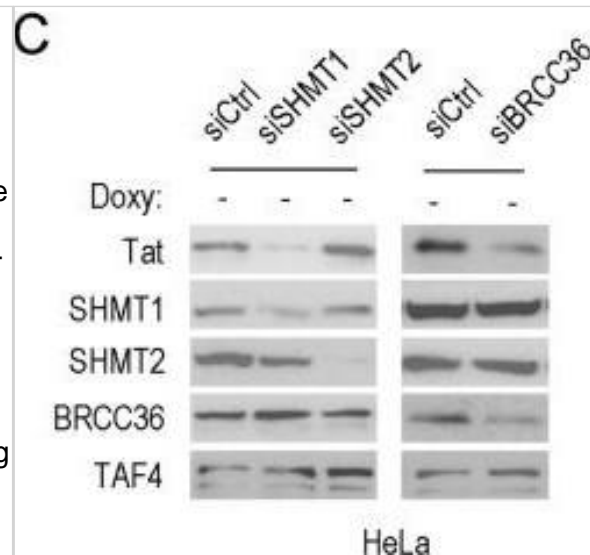
Western Blot: BRCC3 Antibody [NBP1-76831] - Analysis of BRCC36 in MCF7 cell lysate with BRCC36 antibody at (A) 0.5 and (B) 1 μ g/mL.



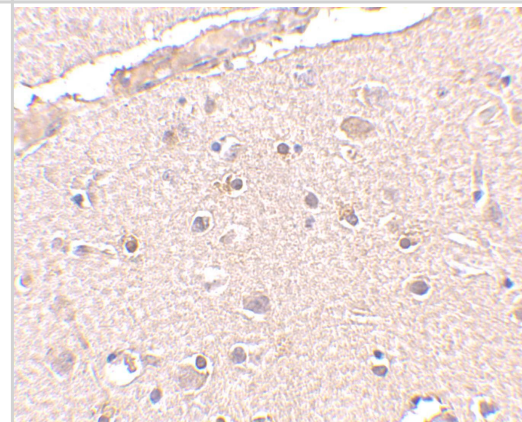
Western Blot: BRCC3 Antibody - BSA Free [NBP1-76831] - SHMT2 & the BRCC36/BRISC deubiquitinase controls Tat K63Ub & destruction by autophagy. (A) Immunoblot analysis of Tat & GFP protein levels in 2D10 cells depleted of SHMT2 or Cyclin T1, as indicated. TAF4 served as loading control. (B) Immunoblot analysis of Tat protein expression in 2D10 cells depleted of BRCC36 or Cyclin T1. NF- κ B2 protein levels were monitored to assess any change in T cell signaling. TAF4 served as loading control. (C) Immunoblot analysis of Tat expression in Tet-on-Tat-off HeLa cells depleted of SHMT1, SHMT2 or BRCC36, as indicated above each lane. TAF4 served as loading control. (D) Top, immunoblot analysis of the effects of overexpression of Flag-SHMT1 & FH-BRCC36 proteins on Tat protein levels. TAF4 served as loading control. Bottom, Dual:Luc reporter activity of the HIV-Luc reporter. Plasmids expressing the Flag-vector, Flag-SHMT1 & FH-BRCC36 proteins were tested at 0 ng (blue bar), 20 ng (purple bar), 100 ng (yellow bar) & 500 ng (light blue bar), as indicated. (E) Analysis of FLAG-Tat-101 immunoprecipitates from lysates of BRCC36- or SHMT1- knockdown cells. FLAG-Tat-101 proteins were labelled with HA-tagged ubiquitin, either wild-type Ub (WT), or ubiquitin mutants that selectively support only K63 or K48 ubiquitylation, & Tat proteins were monitored using anti-HA antisera. (F) Immunoblot analysis of the effect of JIB-04 on Tat protein levels in 2D10 cells depleted of SHMT2 or BRCC36. (G) The effect of JIB-04 on wildtype or Tat Δ K (+K41) STREP-tagged Tat proteins was shown by immunoblot. TAF4 served as loading control. (H) Model of the role of SHMT2 & BRCC36 in the release of Tat-K63Ub from destruction through chaperone-mediated autophagy or SQSMT1/p62-dependent macroautophagy. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1007071>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



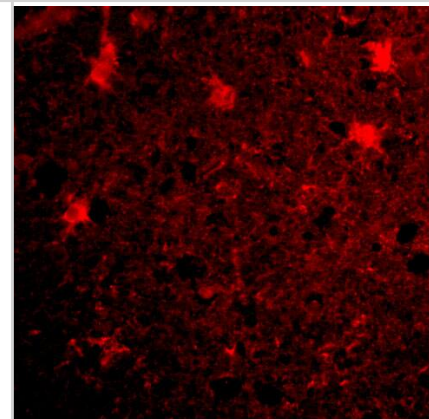
Western Blot: BRCC3 Antibody - BSA Free [NBP1-76831] - SHMT2 & the BRCC36/BRISC deubiquitinase controls Tat K63Ub & destruction by autophagy. (A) Immunoblot analysis of Tat & GFP protein levels in 2D10 cells depleted of SHMT2 or Cyclin T1, as indicated. TAF4 served as loading control. (B) Immunoblot analysis of Tat protein expression in 2D10 cells depleted of BRCC36 or Cyclin T1. NF- κ B2 protein levels were monitored to assess any change in T cell signaling. TAF4 served as loading control. (C) Immunoblot analysis of Tat expression in Tet-on-Tat-off HeLa cells depleted of SHMT1, SHMT2 or BRCC36, as indicated above each lane. TAF4 served as loading control. (D) Top, immunoblot analysis of the effects of overexpression of Flag-SHMT1 & FH-BRCC36 proteins on Tat protein levels. TAF4 served as loading control. Bottom, Dual:Luc reporter activity of the HIV-Luc reporter. Plasmids expressing the Flag-vector, Flag-SHMT1 & FH-BRCC36 proteins were tested at 0 ng (blue bar), 20 ng (purple bar), 100 ng (yellow bar) & 500 ng (light blue bar), as indicated. (E) Analysis of FLAG-Tat-101 immunoprecipitates from lysates of BRCC36- or SHMT1- knockdown cells. FLAG-Tat-101 proteins were labelled with HA-tagged ubiquitin, either wild-type Ub (WT), or ubiquitin mutants that selectively support only K63 or K48 ubiquitylation, & Tat proteins were monitored using anti-HA antisera. (F) Immunoblot analysis of the effect of JIB-04 on Tat protein levels in 2D10 cells depleted of SHMT2 or BRCC36. (G) The effect of JIB-04 on wildtype or Tat Δ K (+K41) STREP-tagged Tat proteins was shown by immunoblot. TAF4 served as loading control. (H) Model of the role of SHMT2 & BRCC36 in the release of Tat-K63Ub from destruction through chaperone-mediated autophagy or SQSMT1/p62-dependent macroautophagy. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.ppat.1007071>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunohistochemistry: BRCC3 Antibody - BSA Free [NBP1-76831] - Immunohistochemistry of BRCC3 in human brain tissue with BRCC3 antibody at 2.5 μ g/mL.



Immunocytochemistry/ Immunofluorescence: BRCC3 Antibody - BSA Free [NBP1-76831] - Immunofluorescence of BRCC3 in Human Brain cells with BRCC3 antibody at 20 μ g/mL.



Publications

Nguyen DTT, Lu Y, Chu KL et al. HyperTRIBE uncovers increased MUSASHI-2 RNA binding activity and differential regulation in leukemic stem cells Nat Commun 2020-04-24 [PMID: 32332729] (ICC/IF, Mouse)

Xu M, Moresco JJ, Chang M et al. SHMT2 and the BRCC36/BRISC deubiquitinase regulate HIV-1 Tat K63-ubiquitylation and destruction by autophagy PLoS Pathog. 2018-05-23 [PMID: 29791506] (WB, Human)





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Products Related to NBP1-76831

NBP1-76831PEP	BRCC3 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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