

Product Datasheet

Capicua Antibody - BSA Free

NB110-59906

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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NB110-59906

Capicua 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	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	250 kDa

Product Description

Host	Rabbit
Gene ID	23152
Gene Symbol	CIC
Species	Human, Mouse, Rat, Canine
Immunogen	The epitope recognized by this antibody maps to a C-terminal region within residue 1500-1608 of human Capicua. [NP_055940.3]

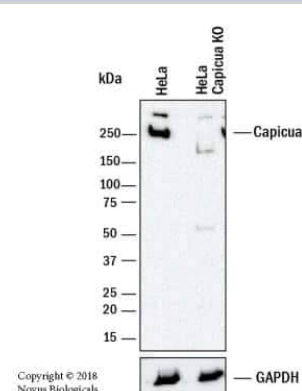
Product Application Details

Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:1000-1:2500, Immunocytochemistry/ Immunofluorescence 1:50, Immunoprecipitation 2-5 ug/mg lysate, Knockout Validated
Application Notes	In Western blot, a band is observed at ~250 kDa. CIC (~164 kDa) interacts with Ataxin 1 (~87 kDa) which may explain the band observed at 250 kDa (complex). In ICC/IF, nuclear staining was observed in Neuro2A cells.

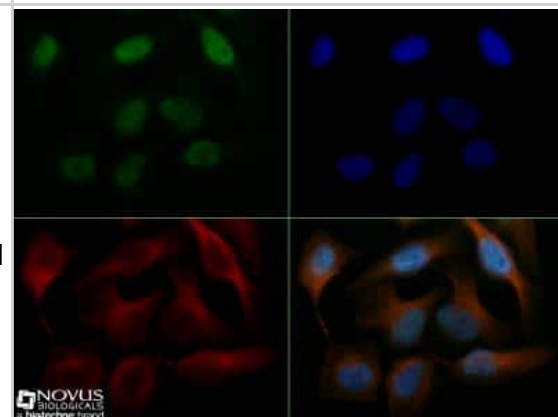


Images

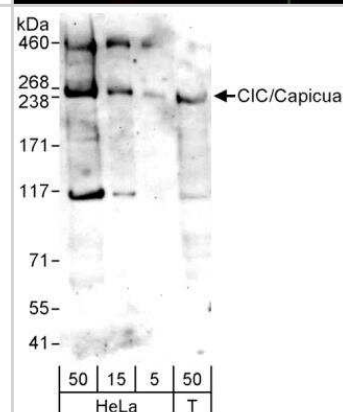
Knockout Validated: Capicua Antibody [NB110-59906] - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and Capicua knockout (KO) HeLa cell line. PVDF membrane was probed with 1:1000 of Rabbit Anti-Human Capicua Polyclonal Antibody (Catalog# NB110-59906) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog# HAF008). Specific band was detected for Capicua at approximately 250 kDa in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.



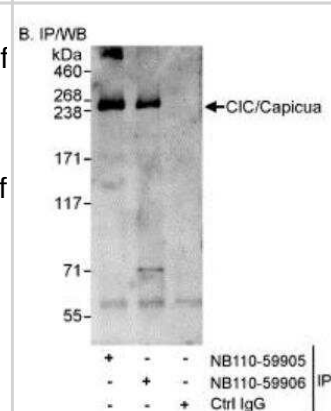
Immunocytochemistry/Immunofluorescence: Capicua Antibody [NB110-59906] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-Capicua at 5 ug/ml overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse DyLight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Western Blot: Capicua Antibody [NB110-59906] - WB detection of Human Capicua /CIC in whole cell lysates of HeLa (5, 15 and 50 ug) and 293T (T, 50 ug) cells using affinity purified rabbit Capicua antibody NB110-59906 used at 1 ug/ml concentration.



Immunoprecipitation: Capicua Antibody [NB110-59906] - Detection of Human Capicua/CIC in 1 mg of whole cell lysate from HeLa cells (20% of IP loaded) using affinity purified rabbit polyclonal Capicua antibody (NB110-59906) at a concentration of 3 ug/mg lysate. Capicua/CIC was immunoprecipitated by NB110-59905 also, which recognizes an upstream epitope. Detection: Chemiluminescence with exposure times of 3 minutes.



Publications

Ni C, Jiang W, Wang Z et al. LncRNA-AC006129.1 reactivates a SOCS3-mediated anti-inflammatory response through DNA methylation-mediated CIC downregulation in schizophrenia Molecular Psychiatry 2020-02-03 [PMID: 32015466] (Chemotaxis, EMSA, WB, Mouse, Human)

Yang R, Chen LH, Hansen LJ et al. Cic loss promotes gliomagenesis via aberrant neural stem cell proliferation and differentiation Cancer Res. 2017-09-22 [PMID: 28939681] (IP, Human)



Procedures

Immunocytochemistry/Immunofluorescence protocol for Capicua Antibody (NB110-59906)

Capicua Antibody:

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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Products Related to NB110-59906

NB800-PC1	HeLa Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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