Product Datasheet

CRIPTO Antibody
NB100-1597

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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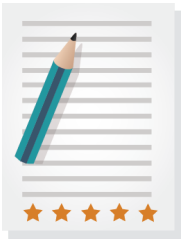
Publications: 1

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-1597

Updated 3/9/2022 v.20.1



NB100-1597

CRIPTO Antibody

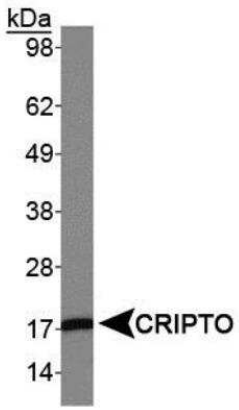
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Glycine and 0.15M NaCl
Target Molecular Weight	18 kDa

Product Description	
Host	Rabbit
Gene ID	6997
Gene Symbol	TDGF1
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: mouse (93%), cow (93%), and zebrafish (93%). There is no significant homology with any other species.
Marker	Embryonic Stem Cell Marker
Immunogen	A synthetic peptide made to an internal portion of human Cripto1 (between residues 100-150). [UniProt# P13385]

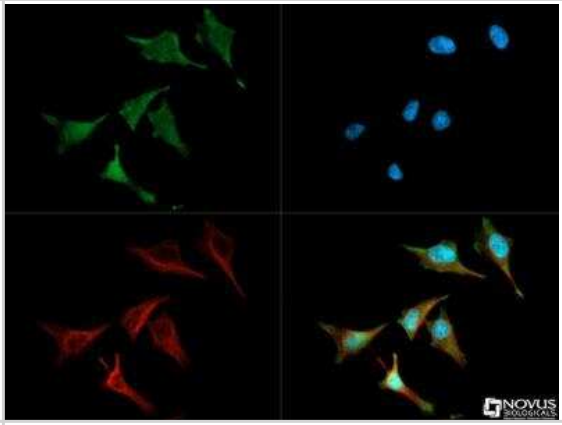
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:50, Immunocytochemistry/Immunofluorescence 1:20-1:100
Application Notes	This Cripto1 antibody is useful in Immunocytochemistry/Immunofluorescence, Flow Cytometry, and Western blot, In Western blot a band is seen ~18 kDa which is the core form of Cripto1. In ICC/IF, cytoplasmic and membrane staining was observed in HeLa cells. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

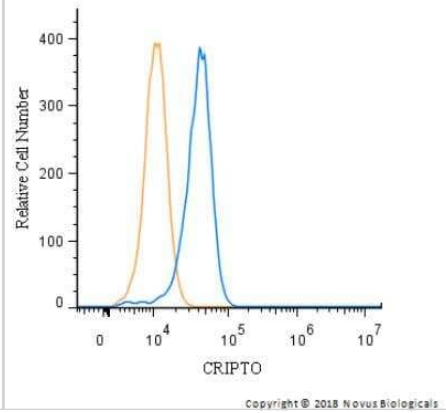
Western Blot: CRIPTO Antibody [NB100-1597] - Analysis of Cripto in MDA-MB231 lysates.



Immunocytochemistry/Immunofluorescence: CRIPTO Antibody [NB100-1597] - Antibody was tested in HeLa cells with Dylight 488 (green). Nuclei were counterstained with DAPI (blue) and tubulin was stained with alpha tubulin (red).



Flow Cytometry: CRIPTO Antibody [NB100-1597] - An intracellular stain was performed on HeLa with NB100-1597 and a matched isotype control. Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550.



Publications

Calle A, Toribio-Serrano V, YANez-MO M, RamIrez M Embryonic trophectoderm secretomics reveals chemotactic migration and intercellular communication of endometrial and circulating MSCs in embryonic implantation Int J Mol Sci 2021-06-02 [PMID: 34073234]

Procedures

Western Blot Protocol for Cripto1 Antibody (NB100-1597)
CRIPTO Antibody: https://www.novusbio.com/products/cripto-antibody_nb100-1597
Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 20 ug of total protein per lane.

2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.

3. Rinse membrane with dH2O and then stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.

4. Rinse the blot in TBS for approximately 5 minutes.

5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS for 2 hours at room temperature.

6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.

7. Dilute the rabbit anti-Cripto (human) primary antibody (NB 100-1597) in blocking buffer and incubate 1 hour at room temperature.

8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.

9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.

10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).

11. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Pierce's ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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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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