Product Datasheet

WT1 Antibody
NB110-60011SS

Unit Size: 0.025 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

Reviews: 1 Publications: 3

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Updated 6/15/2014 v.20.1

NB110-60011SS

WT1 Antibody (6F-H2)

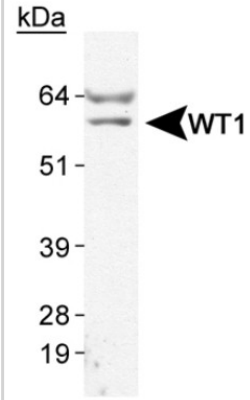
Product Information	
Unit Size	0.025 ml
Concentration	0.8 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	6F-H2
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	Tris-glycine, 150 mM NaCl
Target Molecular Weight	55 kDa

Product Description	
Host	Mouse
Gene ID	7490
Gene Symbol	WT1
Species	Human, Mouse
Species Reactivity	Human and Mouse.
Immunogen	Human recombinant Wilms Tumor 1 protein (residues 1-181). [Swiss-Prot# P19544]

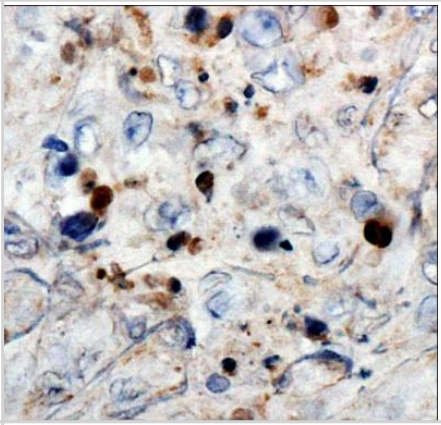
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Immunohistochemistry 1:400, Immunohistochemistry-Paraffin 1:400, Immunoprecipitation 2-10 ug/ml lysate, Western Blot 2 ug/ml, Immunohistochemistry-Frozen 1: 400, Simple Western 1:50
Application Notes	This Wilms Tumor 1 antibody is useful for Immunohistochemistry paraffin embedded / frozen sections , Western blot and Immunoprecipitation. In WB, a doublet is observed ~55 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. In immunostaining, this target may be found localized to Nucleus/nucleolus and Cytoplasm of cells (WT1 shuttles between nucleus and cytoplasm - PMID 14681305).In Simple Western only 10-15 uL of the recommended dilution is used per data point.

Images

Western Blot: Wilms Tumor 1 Antibody (6F-H2) [NB110-60011] - WT1 in 293 cell lysate



Immunohistochemistry: Wilms Tumor 1 Antibody (6F-H2) [NB110-60011] - IHC analysis of Wilms Tumor 1 in human renal cancer using DAB with hematoxylin counterstain.



Simple Western: WT1 Antibody (6F-H2) [NB110-60011] - Simple Western lane view shows a specific band for WT1 in 0.5 mg/ml of Hek293 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.

Publications

Jeitany M, Pineda JR, Liu Q et al. A preclinical mouse model of glioma with an alternative mechanism of telomere maintenance (ALT). Int. J Cancer. 2014 Aug 30 [PMID: 25175359]

Rauscher III, FJ et al. Characterization of monoclonal antibodies directed to the amino-terminus of the WT1, Wilms' tumor suppressor protein. Hybridoma;17(2):191-8. 1998 Apr. [PMID: 9627060]

McCarty G, Awad O, Loeb DM. WT1 directly regulates expression of vascular endothelial growth factor and is a mediator of tumor response to hypoxia. The Journal of Biological Chemistry. 2011 Oct 26. [PMID: 22030397]

Procedures

Western Blot Protocol for Wilms Tumor 1 Antibody (NB110-60011)
Western Blot Protocol
1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 28 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, 1 hour 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 mouse anti-Wilm's Tumor 1 primary antibody (NB 110-60011) in blocking buffer and incubate 2 hours 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 mouse-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers 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 manufacturers instructions (Pierce, 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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.