Product Datasheet

FoxP1 Antibody (JC12) - BSA Free
NB100-65125SS

Unit Size: 0.025 ml

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

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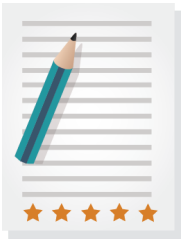
Updated 10/23/2024 v.20.1



NB100-65125SS

FoxP1 Antibody (JC12) - BSA Free

Product Information

Unit Size	0.025 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JC12
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS

Product Description

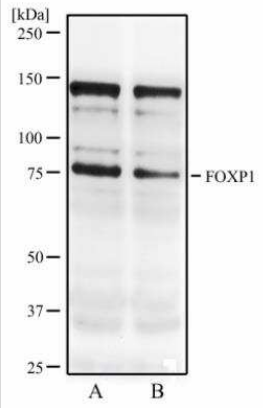
Host	Mouse
Gene ID	27086
Gene Symbol	FOXP1
Species	Human, Mouse
Specificity/Sensitivity	Does not recognize closely related molecules FOXP2, FOXP3 or FOXP4.
Immunogen	Human FOXP1 [Uniprot# Q9H334]

Product Application Details

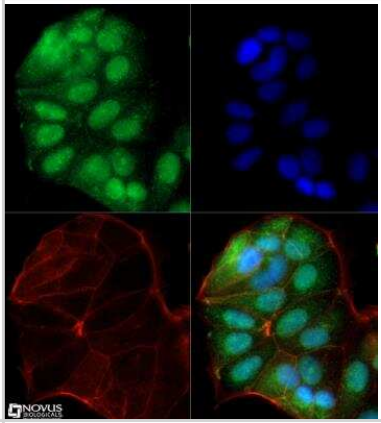
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 2ug/ml, Flow Cytometry 1 ug per million cells, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 15161711), Immunoprecipitation reported in scientific literature (PMID 17586580), Immunohistochemistry-Paraffin 1:200-1:500, Immunohistochemistry-Frozen 1:10-1:500, CyTOF-ready
Application Notes	Heat induced antigen retrieval with Sodium Citrate buffer pH 6.0 is recommended when using this antibody for IHC-P. This antibody is CyTOF ready.

Images

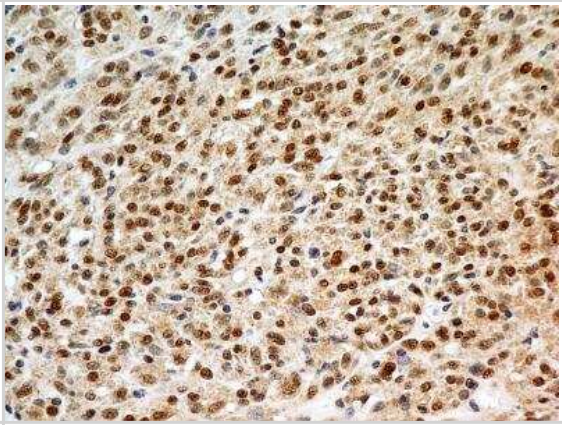
Western Blot: FOXP1 Antibody (JC12) [NB100-65125] - Western blot analysis of resonicated MCF7 cell lysate (A) and MCF7 cell lysate (B) using FOXP1 antibody at 2 ug/ml.



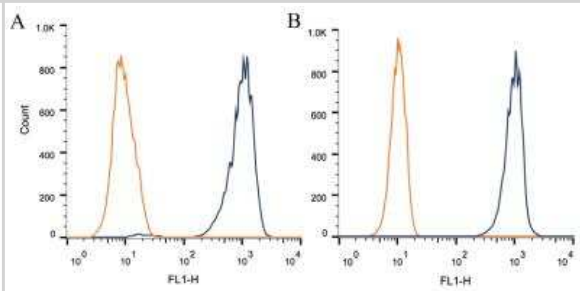
Immunocytochemistry/Immunofluorescence: FOXP1 Antibody (JC12) [NB100-65125] - FOXP1 antibody was tested at 1:25 in MCF-7 cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). Image objective 40x.



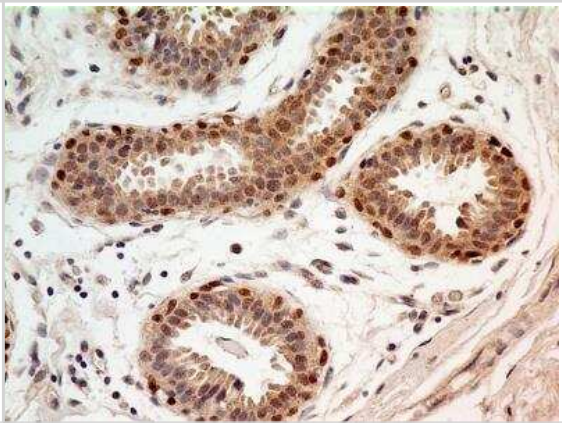
Immunohistochemistry-Paraffin: FOXP1 Antibody (JC12) [NB100-65125] - IHC analysis of formalin-fixed paraffin-embedded tissue section of malignant stromal tumor of the human small bowel using mouse monoclonal FOXP1 antibody (clone JC12) at 5 ug/ml concentration. The carcinoma cells developed an expected and specific strong nuclear with mild cytoplasmic immunopositivity for FOXP1 protein.

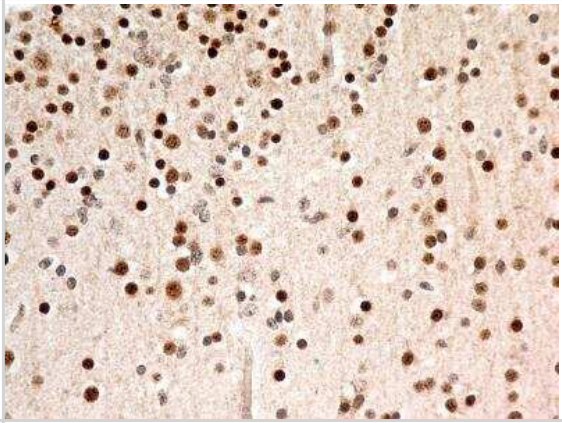
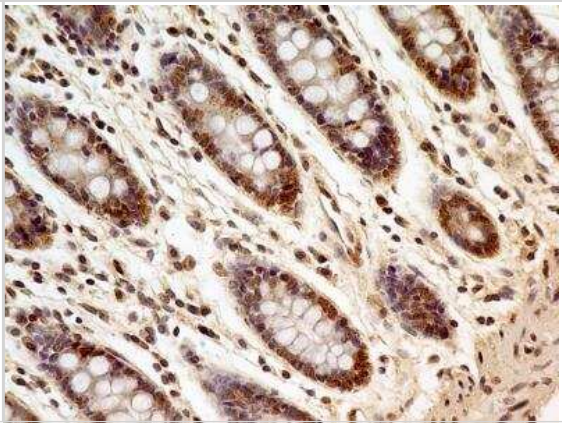


Flow Cytometry: FOXP1 Antibody (JC12) [NB100-65125] - Intracellular flow cytometric staining of 1 x 10^6 CHO (A) and HeLa (B) cells using FOXP1 antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/1x10^6 cells was used.



Immunohistochemistry-Paraffin: FOXP1 Antibody (JC12) [NB100-65125] - IHC analysis of formalin-fixed paraffin-embedded tissue section of human normal breast using FOXP1 antibody (clone JC12) at 5 ug/ml concentration. The breast ductal/acinar epithelial cells and the myoepithelial cells developed a strong nuclear along with moderate cytoplasmic immuno-positivity for FOXP1 protein.



Immunohistochemistry-Paraffin: FOXP1 Antibody (JC12) [NB100-65125] - IHC analysis of formalin-fixed paraffin-embedded tissue section of human normal brain using mouse monoclonal FOXP1 antibody (clone JC12) at 5 ug/ml concentration. The cells in the brain tissue depicted strong specific nuclear along with relatively weak cytoplasmic immunopositivity for FOXP1 protein.	
Immunohistochemistry-Paraffin: FOXP1 Antibody (JC12) [NB100-65125] - IHC analysis of formalin-fixed paraffin-embedded tissue section of human normal colon using mouse monoclonal FOXP1 antibody (clone JC12) at 5 ug/ml concentration. Most of the cells depicted an expected strong nuclear with mild cytoplasmic staining.	

Publications

Gars E, Butzmann A, Ohgami R et al. The life and death of the germinal center Ann Diagn Pathol 2019-11-13 [PMID: 31751845] (IF/IHC, Human)

Li B, Samanta A, Song X et al. FOXP3 is a homo-oligomer and a component of a supramolecular regulatory complex disabled in the human XLAAD/IPEX autoimmune disease. Int Immunol. 2007-07-01 [PMID: 17586580] (IP, Human)

Brown PJ, Ashe SL, Leich E et al. Potentially oncogenic B-cell activation-induced smaller isoforms of FOXP1 are highly expressed in the activated B cell-like subtype of DLBCL. Blood. 2008-03-01 [PMID: 18077790] (WB, IF/IHC, Human)

Fox SB, Brown P, Han C et al. Expression of the forkhead transcription factor FOXP1 is associated with estrogen receptor alpha and improved survival in primary human breast carcinomas. Clin Cancer Res. 2004-05-15 [PMID: 15161711] (IF/IHC, WB, ICC/IF, Human)

Loddenkemper C, Maul J, Berg E et al. Analysis of FOXP3 protein expression in human CD4(+)CD25(+) regulatory T cells at the single-cell level. Eur J Immunol. 2006-01-01 [PMID: 16380960] (IF/IHC, Human)

Xie Y, Bulbul MA, Ji L et al. p53 Expression Is a Strong Marker of Inferior Survival in De Novo Diffuse Large B-Cell Lymphoma and May Have Enhanced Negative Effect With MYC Coexpression: A Single Institutional Clinicopathologic Study. Am. J. Clin. Pathol. 2014-04-01 [PMID: 24619762] (IHC-P, Human)

Banham, AH et al. Expression of the FOXP1 transcription factor is strongly associated with inferior survival in patients with diffuse large B-cell lymphoma. Clin Cancer Res11:1065 - 1072. 2005-01-01 [PMID: 15709173]

Banham, AH et al. The FOXP1 winged helix transcription factor is a novel candidate tumor suppressor gene on chromosome 3p. Cancer Res 61:8820 - 8829. 2001-01-01 [PMID: 11751404]

Procedures

Immunohistochemistry-Paraffin protocol for FoxP1 Antibody (NB100-65125)

1. Deparaffinize the tissue sections by immersing the slides in Xylene with two changes for 10 min each. Sections should not get dried at any stage from this point.
2. Rehydrate the tissue sections by immersing the slides in decreasing grades of ethanol as follows:
a. Immerse in 100% ethanol with 2 changes for 5 minutes each
b. Immerse in 95% ethanol with 2 changes for 5 minutes each
c. Immerse in 90% ethanol for 5 minutes
d. Immerse in 70% ethanol for 5 minutes
e. Immerse in 50% ethanol for 5 minutes
f. Immerse in distilled water for 5 minutes
3. Antigen Retrieval (Microwave Method):
a. Immerse the slides in a microwave compatible tray containing 10 mM Sodium Citrate buffer (pH 6.0) with 0.05% Tween 20.
b. Boil the slides and maintain the sub-boiling temperature for 5 minutes in the microwave. Thereafter, take out the tray very carefully and cool it at room temperature (RT) for about 30 minutes.
c. Wash the slides 3 times, 3 minutes each by immersing them in TBST (Tris Buffered Saline having 0.05% Tween 20).
4. Quenching of Endogenous Peroxidase:
a. Incubate the slides in 3% hydrogen peroxide prepared in methanol for 15 minutes (at RT, in dark conditions).
b. Wash the slides in TBST 3 times, 3 minutes each.
5. Protein Blocking:
a. Incubate the sections with background sniper solution at RT for 15 minutes (Biocare Medicals, USA).
b. Wash the sections 3 times, 3 min each by immersing the slides in TBST.
6. Primary Antibody:
a. Dilute the primary antibody at 2-5ug/ml concentration using PBS as a diluent.
b. Incubate the sections with diluted primary antibody for 90 minutes at RT in a humidified chamber.
c. Thereafter, wash the slides 4 times, 5 minutes each with TBST.
7. Probe (Secondary Reagent):
a. Incubate with MACH 1 Mouse probe for 15 minutes at RT.
b. Incubate for 30 min at room temperature with HRP-Polymer (Biocare Medical, USA).
c. Wash the slides with TBST 4 times, 5 minutes each
8. Chromogen:
a. Mix 32ul of DAB Chromogen with 1 ml of DAB substrate buffer (Biocare Medical, USA).
a. Apply 200ul DAB mixture/section and incubate at RT in dark conditions (few seconds - 5 minutes).
b. As soon as an appropriate color develops, rinse the slides with deionized water (2-3 brief rinses).
9. Counter stain:
a. Counter stain with Hematoxylin for 30 seconds (Vector Labs, USA).
b. Wash in deionized water for 1-2 minutes to clear the extra stain.
c. Incubate the slides in bluing solution or Scott's water twice for 2 minutes each time.
10. Dehydrate the sections in increasing grades of alcohols:
a. 50% alcohol for 1 minute
b. 70% for 1 minute
c. 90% for 1 minute
d. 95% for 1 minute
e. 100% for 1 minute
f. Xylene with 2 changes for 2 minutes each
11. Mount with DPX mount and cover-slip glass (Fisher Scientific, USA), carefully not allowing any air bubbles to enter.

NOTE:- This protocol is provided as a reference tool only. Depending upon the type of tissues /tissue processing and reagents employed, the end user will need to optimize the final conditions for achieving an expected staining.

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