

NODAL Polyclonal antibody

Catalog Number: 27430-1-AP

Basic Information

Catalog Number: 27430-1-AP	GenBank Accession Number: BC104976	Purification Method: Antigen affinity purification
Size: 200 ug/ml	GeneID (NCBI): 4838	Recommended Dilutions: WB 1:1000-1:4000
Source: Rabbit	UNIPROT ID: Q96S42	IHC 1:50-1:500
Isotype: IgG	Full Name: nodal homolog (mouse)	IF/ICC 1:200-1:800
Immunogen Catalog Number: AG26729	Calculated MW: 347 aa, 40 kDa	
	Observed MW: 45 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human	WB : HeLa cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human stomach cancer tissue, human endometrial cancer tissue
	IF/ICC : HeLa cells,

Background Information

Nodal is a member of the transforming growth factor- β (TGF- β) superfamily that plays critical roles during embryogenesis. Nodal also regulates cell proliferation, apoptosis, and invasion in cancer cells. However, it appears to exert both tumor-suppressing and tumor-promoting effects, depending on the cell type (PMID: 22645523). Nodal signals through ALK7 receptor to inhibit proliferation and to induce apoptosis in ovarian cancer cell lines and breast cancer cell lines (PMID: 15531507, PMID: 21383881).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

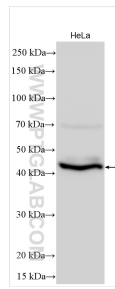
T: 4006900926

E: Proteintech-CN@ptglab.com

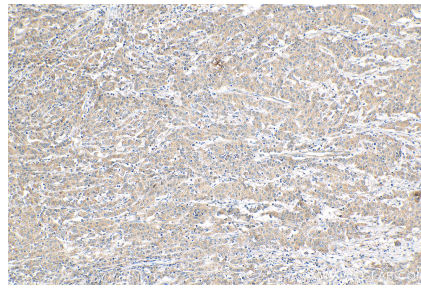
W: ptgcn.com

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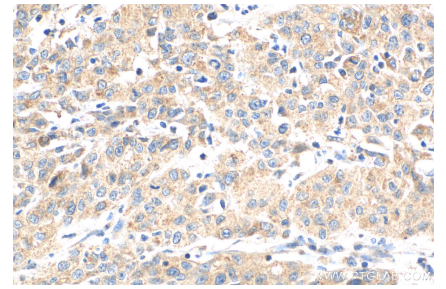
Selected Validation Data



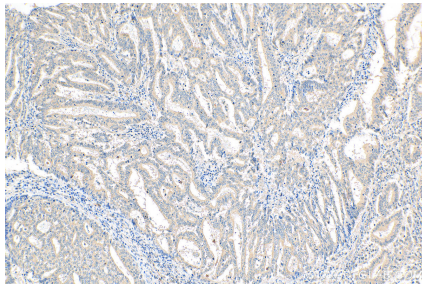
HeLa cells were subjected to SDS PAGE followed by western blot with 27430-1-AP (NODAL antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



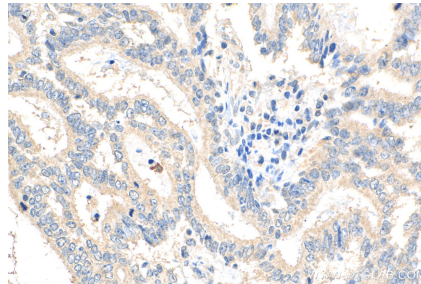
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 27430-1-AP (NODAL antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



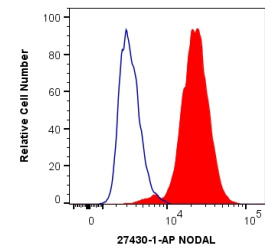
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 27430-1-AP (NODAL antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



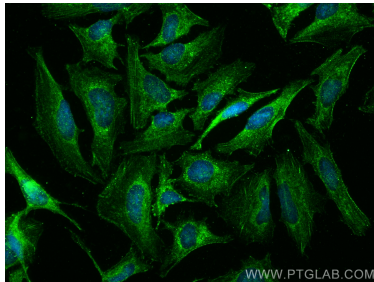
Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue slide using 27430-1-AP (NODAL antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



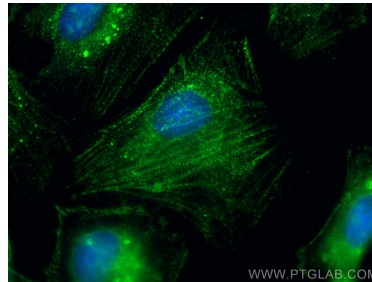
Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue slide using 27430-1-AP (NODAL antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ HEK-293T cells were intracellularly stained with 0.4 ug Anti-Human NODAL (27430-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using NODAL antibody (27430-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using NODAL antibody (27430-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).