

Anti-Nodal antibody [5C3] ab55676

★★★★★ [5 Abreviews](#) [21 References](#) [4 图像](#)

概述

产品名称	Anti-Nodal抗体[5C3]
描述	小鼠单克隆抗体[5C3] to Nodal
宿主	Mouse
经测试应用	适用于: WB, IHC-P, ICC/IF, Flow Cyt
种属反应性	与反应: Mouse, Human
免疫原	Recombinant fragment: RCEGECNPV GEEFHPTNHA YIQSLLKRYQ PHRVPSTCCA PVKTKPLSML YVDNGRVLLD HHKDMVEEC GC, corresponding to amino acids 275-347 of Human Nodal Run BLAST with ExPASy Run BLAST with NCBI

常规说明

This product was changed from ascites to tissue culture supernatant on 28th May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.40 Constituent: 100% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	5C3
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab55676于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (3)	Use at an assay dependent concentration. Predicted molecular weight: 40 kDa.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能

Essential for mesoderm formation and axial patterning during embryonic development.

疾病相关

Defects in NODAL are the cause of visceral heterotaxy autosomal type 5 (HTX5) [MIM:270100]. A form of visceral heterotaxy, a complex disorder due to disruption of the normal left-right asymmetry of the thoracoabdominal organs. It results in an abnormal arrangement of visceral organs, and a wide variety of congenital defects. Clinical features of visceral heterotaxy autosomal type 5 include situs inversus viscerum or situs ambiguus, congenital heart defect, transposition of the great vessels ventricular septal defect, atrial septal defect, truncuscommunis, and dextrocardia.

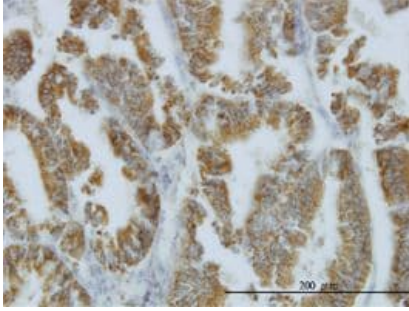
序列相似性

Belongs to the TGF-beta family.

细胞定位

Secreted.

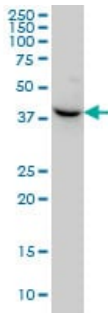
图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nodal antibody [5C3] (ab55676)

Nodal antibody (ab55676) used in immunohistochemistry at 3ug/ml on formalin fixed and paraffin embedded human endometrium cancer.

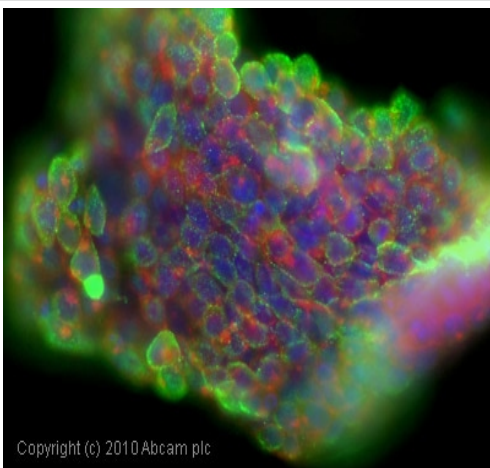
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Western blot - Anti-Nodal antibody [5C3] (ab55676)

Nodal antibody (ab55676) at 1ug/lane + HeLa cell lysate at 25ug/lane.

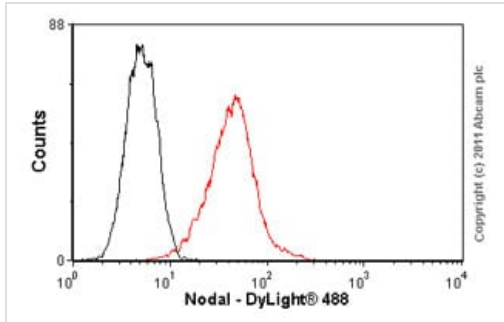
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Immunocytochemistry/ Immunofluorescence - Anti-Nodal antibody [5C3] (ab55676)

ICC/IF image of ab55676 stained mouse embryonic stem cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab55676, 5μg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43μM.

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Flow Cytometry - Anti-Nodal antibody [5C3]
(ab55676)

Overlay histogram showing HEK293 cells stained with ab55676 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab55676, 1 µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2 µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HEK293 cells fixed with 100% methanol (5 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.

This image was generated using the ascites version of the product.

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