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NODAL Rabbit mAb

Catalog # AP75814

Product Information

Application	WB, FC
Primary Accession	Q96S42
Reactivity	Rat, Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	39561

Additional Information

Gene ID	4838
Other Names	NODAL
Dilution	WB~~1:1000-1:5000 FC~~1:100-1:500
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

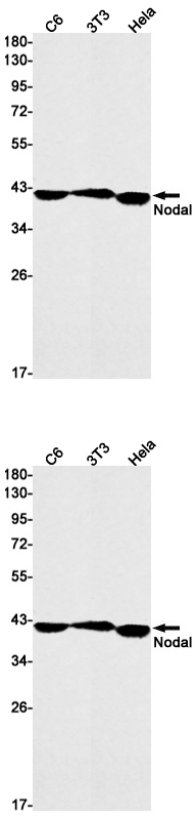
Name	NODAL
Function	Essential for mesoderm formation and axial patterning during embryonic development.
Cellular Location	Secreted.

Background

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate the mature protein, which regulates early embryonic development. This protein is required for maintenance of human embryonic stem cell pluripotency and may play a role in human placental development. Mutations in this gene are associated with heterotaxy, a condition

characterized by random orientation of visceral organs with respect to the left-right axis.

Images



Western blot analysis of Nodal in C6, 3T3, Hela lysates using Nodal antibody.

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