

# NODAL Rabbit mAb

Catalog # AP75814

## Product Information

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<b>Application</b>	WB, FC
<b>Primary Accession</b>	<a href="#">Q96S42</a>
<b>Reactivity</b>	Rat, Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	39561

## Additional Information

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

## Protein Information

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

## Background

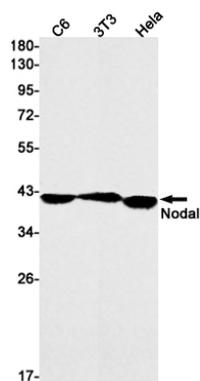
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This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate 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

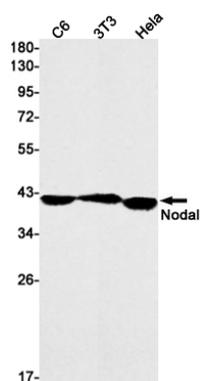
characterized by random orientation of visceral organs with respect to the left-right axis.

## Images

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



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