

**Anti-Human/Mouse/Rat NODAL Polyclonal Antibody****Polyclonal Antibody****Cat.NO.: PA03994**

3th Edition

**Description:** 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. NODAL (Nodal Growth Differentiation Factor) is a Protein Coding gene. Diseases associated with NODAL include Heterotaxy, Visceral, 5 and Dextrocardia With Situs Inversus. Among its related pathways are Signaling by NODAL and Mesodermal Commitment Pathway. GO annotations related to this gene include cytokine activity and transforming growth factor beta receptor binding. An important paralog of this gene is GDF3.

**Antigen:** Synthesized peptide derived from the C-terminal region of human Nodal.

**Form:**

**How to use:** 1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:** PBS (pH7.4) containing 1% BSA

**Application:** This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:**