

## ALK5 monoclonal antibody

Catalog: MB66021

Host: Mouse

Reactivity: Human

**BackGround:**

A total of three members of the TGF $\beta$  family, namely TGF $\beta$ 1, TGF $\beta$ 2 and TGF $\beta$ 3, have been identified in mammals. Each is synthesized as a latent precursor that is subsequently cleaved forming the 112 amino acid growth factor which becomes active upon dimerization. TGF $\beta$ s mediate their activity by high affinity binding to the TGF $\beta$  receptor type-II (TGF $\beta$  RII) with a cytoplasmic serine-threonine kinase domain. For signaling growth inhibition and early gene responses, TGF $\beta$  RII requires both its kinase activity and its association with a TGF $\beta$ -binding protein, designated TGF $\beta$  receptor type-I (TGF $\beta$  RI). TGF $\beta$  RI is a 503 amino acid single-pass type I membrane protein that is expressed ubiquitously and, with TGF $\beta$  RII, functions as a receptor for TGF $\beta$ . Defects in the gene encoding TGF $\beta$  RI are the cause of aortic aneurysm familial thoracic type 5 (AAT5), Loeys-Dietz syndrome type 2A (LDS2A) and Loeys-Dietz syndrome type 1A (LDS1A).

**Product:**

Mouse IgG2a. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.

**Molecular Weight:**

~ 55 kDa

**Swiss-Prot:**

P36897

**Purification&Purity:**

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

**Applications:**

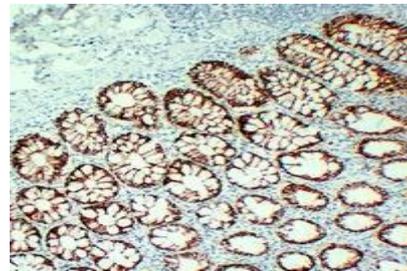
IHC (1/100 - 1/300)

**Storage&Stability:**

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

**Specificity:**

Recognizes endogenous levels of ALK5 protein.

**DATA:**

Immunohistochemical analysis of ALK5 staining in human colon formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**Note:**

For research use only, not for use in diagnostic procedure.

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