

## 10-7542: Monoclonal Antibody to ALK-1 (Clone: ABM43C4)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ABM43C4
<b>Application :</b>	IHC,WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	ACVRL1
<b>Gene ID :</b>	94
<b>Uniprot ID :</b>	P37023
<b>Format :</b>	Purified
<b>Alternative Name :</b>	ACVRL1,ACVRLK1,ALK1
<b>Isotype :</b>	Mouse IgG1 Kappa
<b>Immunogen Information :</b>	A partial length recombinant ALK-1 protein (amino acids 310-503) was used as the immunogen for this antibody

### Description

ALK-1 or Activin receptor-like kinase-1 is a type I cell surface receptor for the TGF-beta (transforming growth factor-beta) super family of proteins. It is expressed predominantly in endothelial cells with moderate expression in smooth muscle cells, myofibroblast, hepatic stellate cells, chondrocytes, monocytes, myoblasts, macrophages and fibroblasts. ALK-1 plays a pivotal role in vascular remodelling and angiogenesis. More specifically its key function is in arterial/venous differentiation during embryonic vascular development. Mutations in ALK-1 gene (12q11-14) causes HHT2 (Hereditary Haemorrhagic Telangiectasia type 2), an autosomal dominant multisystem vascular dysplasia caused by a haploinsufficiency mechanism.

### Product Info

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Western blot analysis: 2-4 Åµg/ml, Immunohistochemical analysis: 1 Åµg/ml

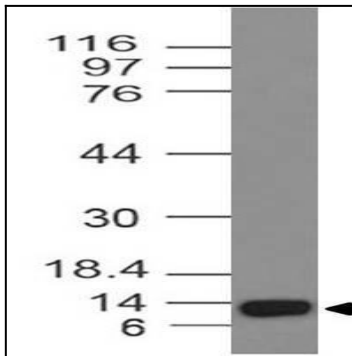


Fig-1: Western blot analysis of ALK-1. Anti- ALK-1 antibody (Clone: ABM43C4) was tested at 0.5  $\mu\text{g/ml}$  on partial recombinant protein.

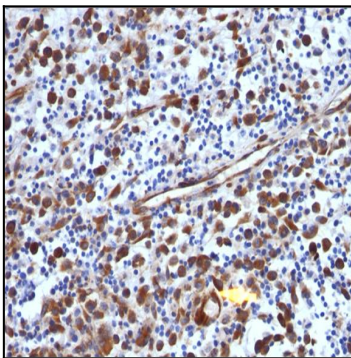


Fig-2 : Immunohistochemical analysis of ALK-1 in human lymphoma using ALK-1 antibody (Clone: ABM43C4) at 1  $\mu\text{g/ml}$ .