

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

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| Clonality : | Monoclonal |
| Clone Name : | ABM43C4 |
| Application : | IHC, WB |
| Reactivity : | Human |
| Gene : | ACVRL1 |
| Gene ID : | 94 |
| Uniprot ID : | P37023 |
| Format : | Purified |
| Alternative Name : | ACVRL1, ACVRLK1, ALK1 |
| Isotype : | Mouse IgG1 Kappa |
| Immunogen Information : | 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

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| Amount : | 25 µg / 100 µg |
| Purification : | Protein G Chromatography |
| Content : | 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. |
| Storage condition : | 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

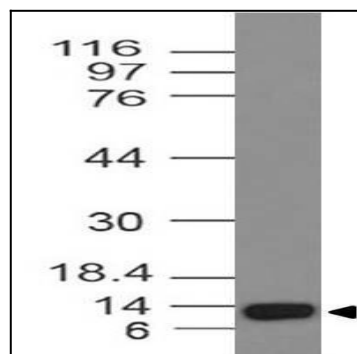


Fig-1: Western blot analysis of ALK-1. Anti- ALK-1 antibody (Clone: ABM43C4) was tested at 0.5 µg/ml on partial recombinant protein.

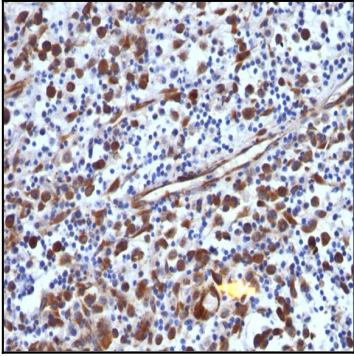


Fig-2 : Immunohistochemical analysis of ALK-1 in human lymphoma using ALK-1 antibody (Clone: ABM43C4) at 1 µg/ml.