



## Monoclonal Antibodies to ALK

### Reagent Category

Monoclonal primary antibody to ALK-1

### Antibody Formats Supplied

□ 0.2 ml of anti ALK-1, Concentrate

PRODUCT# IMI10552E (Concentrate)

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**SOURCE:** cultured supernatant

**IMMNOGEN:** Purified recombinant activin receptor like kinase (ALK-1)

**IMMUNOGLOBULIN ISOTYPE:** IgG

**CLONE:** ALK1

### **REACTIVITY**

ALK-1 is highly expressed on endothelial cells and other vascular tissues; it plays an important role in the control of blood vessel development and repair. ALK-1 recognizes recombinant human activin receptor like kinase 1 (ALK-1). There is no cross reactivity with recombinant mouse ALK-1 and there is no cross reactivity with recombinant human activin receptors of IA and IB. This antibody is suitable for use on routinely fixed paraffin embedded or frozen sections. It is compatible with formalin fixed tissues and with other commonly used histological fixatives.

**STAINING PATTERN:** Cytoplasm staining

### **Antibody FORMAT, DILUTION and INCUBATION**

This affinity-purified monoclonal antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

□ 0.2ml of Concentrate, for paraffin section staining: Dilute 1:20 for 30-minut to 1 hour incubation. The dilution factors are considerably higher for 2 hour to over-night incubation.

**The dilution factor for frozen section staining and other applications are also considerably higher and must be determined by the end user for the application and the secondary staining reagents employed.**

THE SUGGESTED STARTING DILUTION FACTORS ARE MERE GUIDELINES ONLY. OPTIMAL DILUTION FACTORS MUST BE DETERMINED BY THE END USER FOR THE SECONDARY STAINING REAGENTS, SPECIMEN, STAINING PROTOCOL AND APPLICATION EMPLOYED.

*The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT staining systems. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.*

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### **SPECIAL USAGE GUIDANCE**

No pre-treatment such as enzyme (trypsin) pre-digestion is necessary when employing Innovex STAT-Q detection system and signal Enhancing wash buffer in place of PBS or Tris buffer for rinsing in between incubation steps (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase). The use of Innovex Enhancing wash buffer greatly enhances staining signals even on antigenically weak tissues and for overfixed tissues. Furthermore, the use of Innovex Enhancing Wash Buffer as the assay wash buffer allows the user to cut primary incubation time and/or increase antibody dilution and eliminates the need for enzyme pre-digestion. When rinsing with PBS, trypsin digestion of paraffin sections is highly recommended.

### **APPLICATIONS**

This antibody is intended for use in immunolocalization of ALK-1 by a variety of immunoassays such as Immunocytochemistry, fluorescent labeling, ELISA, Immunoblotting and dot blotting. In Immunocytochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative and/or quantitative localization of ALK-1. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

### **SPECIES REACTIVITY**

This antibody reactivity with human has been substantiated; other species reactivity may be characterized by the end user.

### **STORAGE CONDITIONS**

Store in refrigerator at 2-8°C through expiration date noted on the vial.

### **IMPORTANT NOTE:**

**The interpretation of test results is the sole responsibility of the end user.**

***FOR IN VITRO RESEARCH USE ONLY***