

## Product datasheet

# Anti-Activin A Receptor Type IB/ALK-4 antibody [MM0054-11A7] ab78415

[1 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-Activin A Receptor Type IB/ALK-4 antibody [MM0054-11A7]
<b>Description</b>	Mouse monoclonal [MM0054-11A7] to Activin A Receptor Type IB/ALK-4
<b>Host species</b>	Mouse
<b>Specificity</b>	ab78415 detects Activin A Receptor Type IB (ALK4). No cross reactivity was found to Activin A Receptor Type IA (ALK2).
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human Activin A Receptor Type IB/ALK-4 (extracellular).
<b>Positive control</b>	WB: Human embryonic tissue lysate. IHC-P: Human placental tissue.
<b>General notes</b>	<p>This antibody was produced from a hybridoma (mouse myeloma) fused with spleen cells from an immunized mouse.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Constituent: PBS
<b>Purity</b>	Protein G purified
<b>Primary antibody notes</b>	This antibody was produced from a hybridoma (mouse myeloma) fused with spleen cells from an immunized mouse.
<b>Clonality</b>	Monoclonal

Clone number	MM0054-11A7
Isotype	IgG1

## Applications

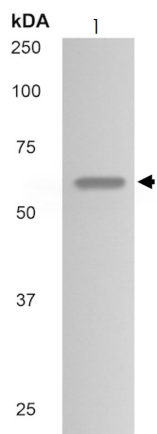
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab78415 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/100 - 1/1000. Predicted molecular weight: 57 kDa.
IHC-P		1/50.

## Target

<b>Function</b>	On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Phosphorylates TDP2.
<b>Tissue specificity</b>	Expressed in many tissues, most strongly in kidney, pancreas, brain, lung, and liver.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily. Contains 1 GS domain. Contains 1 protein kinase domain.
<b>Post-translational modifications</b>	Autophosphorylated.
<b>Cellular localization</b>	Membrane.
<b>Form</b>	There are 3 isoforms produced by alternative splicing. Isoform 1 also known as SKR2-1; isoform 2 as SKR2-2; isoform 3 as SKR2-3.

## Images

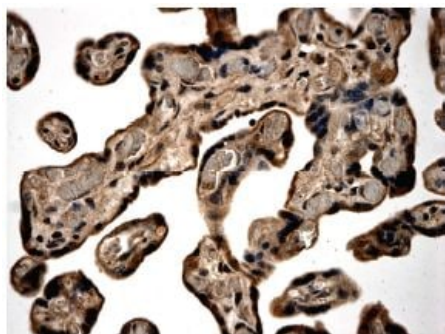


Anti-Activin A Receptor Type IB/ALK-4 antibody [MM0054-11A7]  
(ab78415) at 1/100 dilution + Human embryonic tissue lysate

**Predicted band size:** 57 kDa

**Observed band size:** 58 kDa

Western blot - Anti-Activin A Receptor Type IB/ALK-4 antibody [MM0054-11A7] (ab78415)



ab78415 at 1/50 dilution, staining Activin A Receptor Type IB/ALK-4 in human placental tissue section by Immunohistochemistry (Formalin/PFA fixed paraffin-embedded sections).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Activin A Receptor Type IB/ALK-4 antibody [MM0054-11A7] (ab78415)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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