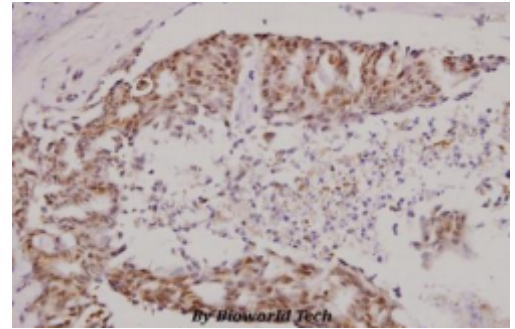


**AP01172PU-N****Polyclonal Antibody to ACVRL1 / ALK1 - Aff - Purified**

<b>Alternate names:</b>	ACVRLK1, Activin A receptor type II-like 1, Activin receptor-like kinase 1, SKR3, Serine/threonine-protein kinase receptor R3, TGF-B superfamily receptor type I
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	<p>Mutations in two genes, Endoglin (also designated CD105) and <b>ACVRL1 / ALK1</b> (activin receptorlike kinase 1, also designated TGF<math>\beta</math> superfamily RI), are responsible for HHT. Endoglin is mutated in HHT1, and ALK-1 is mutated in HHT2, both of which are thought to be caused by haploinsufficiency. Endoglin and ALK-1 are type III and type I members of the TGF<math>\beta</math> receptor superfamily, respectively, that are expressed on vascular endothelial cells. Endoglin can only bind ligands of the TGF<math>\beta</math> superfamily via association with the respective ligand binding receptors for TGF<math>\beta</math>1, TGF<math>\beta</math>3, Activin-A, BMP-2 and BMP-7.</p> <p>ALK-1 preferentially binds TGF<math>\beta</math>1 and is expressed in bone marrow stromal cells, lung, brain, kidney and spleen.</p>
<b>Uniprot ID:</b>	<a href="#">P37023</a>
<b>NCBI:</b>	<a href="#">NP_000011.2</a>
<b>GenelD:</b>	<a href="#">94</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Synthetic peptide corresponding to amino acids 200-250 of Human ACVRL1.
<b>Format:</b>	<p><b>State:</b> Liquid purified Ig fraction (&gt; 95% pure by SDS-PAGE) <b>Purification:</b> Affinity Chromatography using epitope-specific immunogen <b>Buffer System:</b> Phosphate buffered saline (PBS), pH 7.2 <b>Preservatives:</b> 0.05% Sodium Azide</p>
<b>Applications:</b>	<p><b>Western Blot:</b> 1/500-1/1000. <b>Immunofluorescence:</b> 1/50-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Molecular Weight:</b>	~56 kDa
<b>Specificity:</b>	This antibody detects endogenous levels of ALK-1 protein (region surrounding Phe231).
<b>Species Reactivity:</b>	<p><b>Tested:</b> Human. <b>Expected from sequence similarity:</b> Mouse and Rat.</p>
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: One year from despatch

**Pictures:**

**Immunohistochemistry** analysis of ACVRL1/ALK1 using pAb (cat.no. AP01172PU-N in paraffin-embedded human breast carcinoma tissue at 1:100 dilution.



**Western blot** analysis of ACVRL1 /ALK1 using pAb (cat.no. AP01172PU-N) at 1:500 dilution.

- Lane1:**A549 whole cell lysate (40ug)
- Lane2:**MCF-7 whole cell lysate (40ug)
- Lane3:**HCC827 whole cell lysate (40ug)
- Lane4:**PC12 whole cell lysate (40ug)
- Lane5:**BV2 whole cell lysate (40ug)

