



ALK1, Activin receptor-like kinase 1 polyclonal antibody

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Box 1 | Basic Info

Cat. No.	ABP-PAB-11611
Animal ID	RB0065-0066
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	CAA80255
Amount	100µg

Alternative Name(s):

HHT, ALK-1, HHT2, ORW2, SKR3, ACVRLK1

Activin A receptor type II-like 1 (ALK1, also called activin receptor-like kinase 1) is a type I cell-surface receptor for the TGF-beta superfamily of ligands. It shares with other type I receptors a high degree of similarity in serine-threonine kinase subdomains, a glycine- and serine-rich region (called the GS domain) preceding the kinase domain, and a short C-terminal tail. ALK1 shares similar domain structures with 3 other closely related ALK proteins (ALK2, ALK3, and ALK4) that form together a subfamily of receptor serine/threonine kinases. ALK1 is most highly expressed in human placenta and lung and ALK1 deficiency causes hemorrhagic telangiectasia type 2, also known as Rendu-Osler-Weber syndrome 2 (ORW2).

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

KLH conjugated synthetic peptide comprised of amino acids 488 - 504 [CTLQKISNSPEKPKVIQ] of the human activin receptor-like kinase 1 (ALK1) protein.

Application

Tested by peptide-specific ELISA (1:1,000).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Goumans MJ, Valdimarsdottir G, Itoh S, Lebrin F, Larsson J, Mummery C, Karlsson S, ten Dijke P: Activin receptor-like kinase (ALK)1 is an antagonistic mediator of lateral TGFbeta/ALK5 signaling. *Mol. Cell.* 12(4): 817-828 (2003).
2. Lamouille S, Mallet C, Feige JJ, Bailly S: Activin receptor-like kinase 1 is implicated in the maturation phase of angiogenesis. *Blood* 100(13): 4495-4501 (2002).
3. ten Dijke P, Ichijo H, Franzen P, Schulz P, Saras J, Toyoshima H, Heldin CH, Miyazono K: Activin receptor-like kinases: a novel subclass of cell-surface receptors with predicted serine/threonine kinase activity. *Oncogene* 8(10): 2879-2887 (1993).