

Product datasheet for **AP05119PU-N**

ACVR1 Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	Western Blot: 5 - 10 µg/ml. Immunoprecipitation: 5 µg/mg of protein lysate. Immunohistochemistry on paraffin sections: 5 - 10 µg/ml.
Reactivity:	Chicken
Host:	Sheep
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein derived from the extracellular domain of the chicken ALK2 protein. Protein shares significant homology with the mouse, rat and human sequences.
Specificity:	This antibody reacts to ALK2.
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	activin A receptor, type I
Database Link:	Entrez Gene 395246 Chicken Q90ZK6



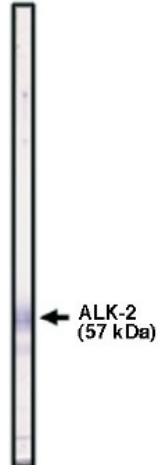
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Background:

Activin Receptor-Like Kinase 2 is a member of the superfamily of type I receptors for transforming growth factor-beta (TGF-beta). This receptor binds both activin and bone morphogenic proteins (BMPs). In mice, these receptors are expressed mainly in the extraembryonic visceral endoderm before gastrulation and later in both embryonic and extraembryonic cells during gastrulation. Also, it has been shown that ALK2 associates with and phosphorylates Smad1 and also regulated Smad5 and Smad8 phosphorylation. It also induces the Tlx2 promoter in the absence of BMP7.

Synonyms:

Activin receptor type IA, ACVRLK2, ALK2, SKR1, ACRV1A

Product images:

Western blot using ALK-2 antibody on ALK-2 fusion protein.