

Product datasheet for **CF807404**

Activin Receptor Type IIA (ACVR2A) Mouse Monoclonal Antibody [Clone ID: OTI1F2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1F2
Applications:	IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 214-513 of human ACVR2A(NP_001607) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	56 kDa
Gene Name:	activin A receptor type 2A
Database Link:	NP_001607 Entrez Gene 11480 Mouse Entrez Gene 29263 Rat Entrez Gene 92 Human P27037



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Background:

This gene encodes a receptor that mediates the functions of activins, which are members of the transforming growth factor-beta (TGF-beta) superfamily involved in diverse biological processes. The encoded protein is a transmembrane serine-threonine kinase receptor which mediates signaling by forming heterodimeric complexes with various combinations of type I and type II receptors and ligands in a cell-specific manner. The encoded type II receptor is primarily involved in ligand-binding and includes an extracellular ligand-binding domain, a transmembrane domain and a cytoplasmic serine-threonine kinase domain. This gene may be associated with susceptibility to preeclampsia, a pregnancy-related disease which can result in maternal and fetal morbidity and mortality. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jun 2013]

Synonyms:

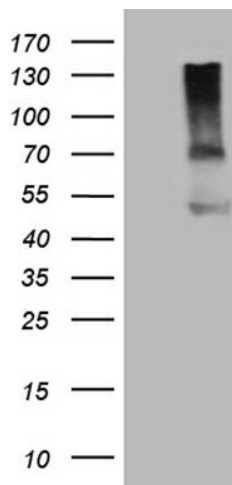
ACTRII; ACVR2

Protein Families:

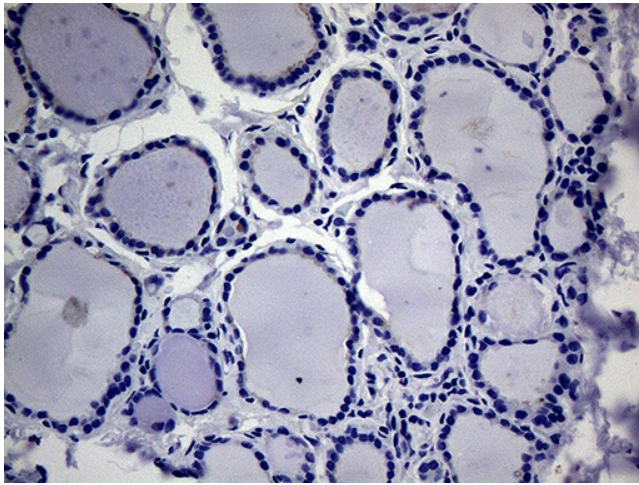
Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways:

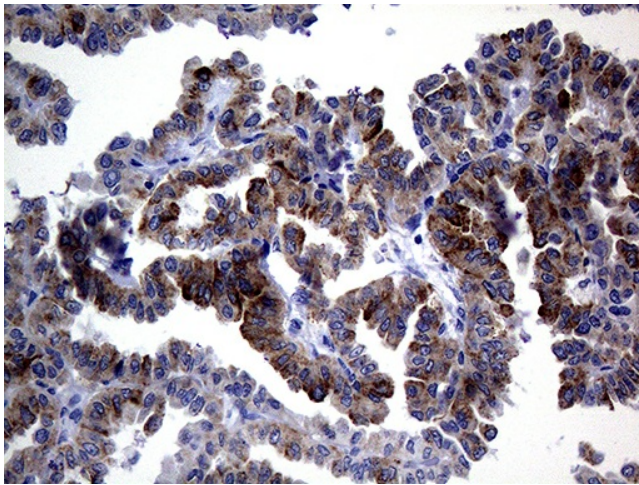
Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

Product images:


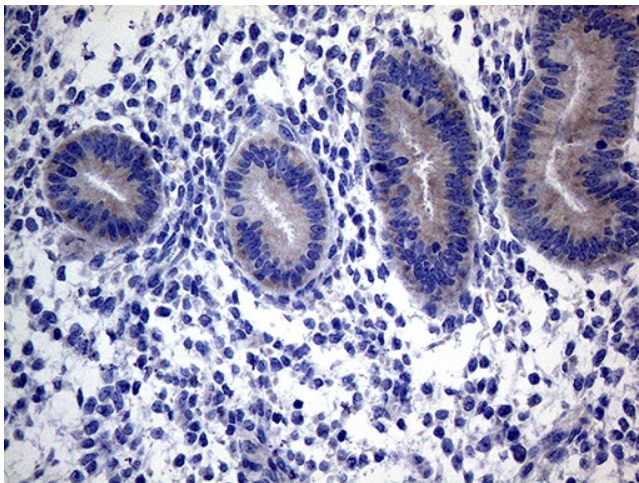
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ACVR2A (Cat# [RC210227], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ACVR2A (Cat# [TA807404])(1:500). Positive lysates [LY419844] (100ug) and [LC419844] (20ug) can be purchased separately from OriGene.



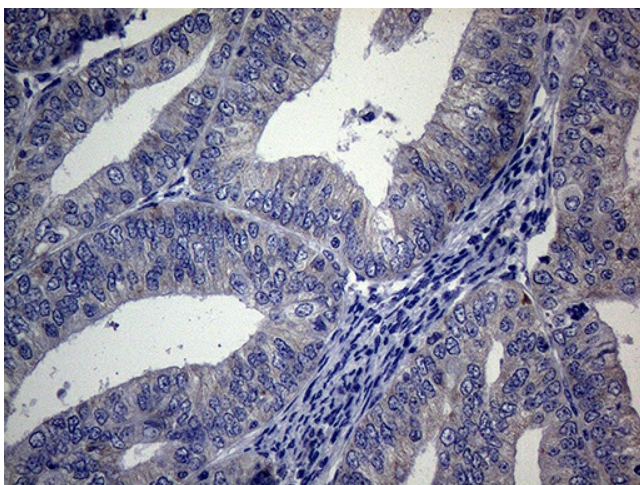
Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-ACVR2A mouse monoclonal antibody. This figure shows negative staining. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA807404]) (1:2000)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-ACVR2A mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA807404]) (1:2000)



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-ACVR2A mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA807404]) (1:2000)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-ACVR2A mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA807404]) (1:2000)