

## Product datasheet for **TA807404M**

### 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:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
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:	<a href="#">NP_001607</a> <a href="#">Entrez Gene 11480 Mouse</a> <a href="#">Entrez Gene 29263 Rat</a> <a href="#">Entrez Gene 92 Human</a> <a href="#">P27037</a>


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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:**

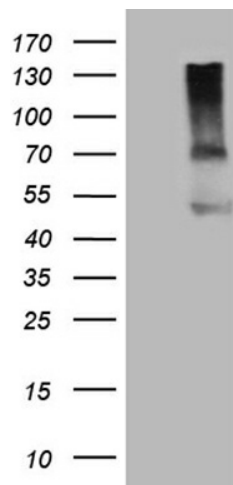
ACTRII; ACVR2

**Protein Families:**

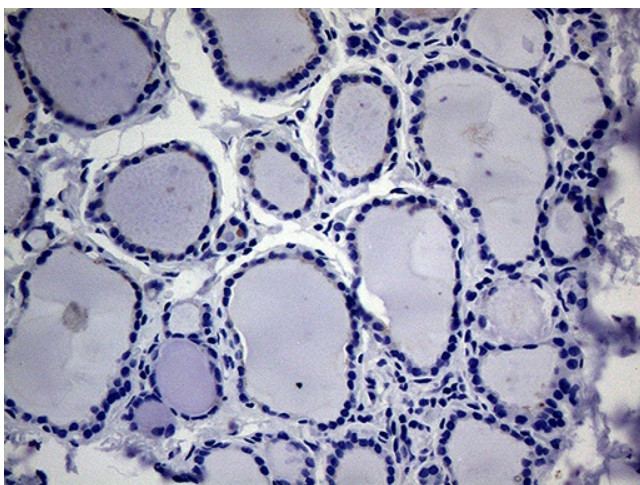
Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:**

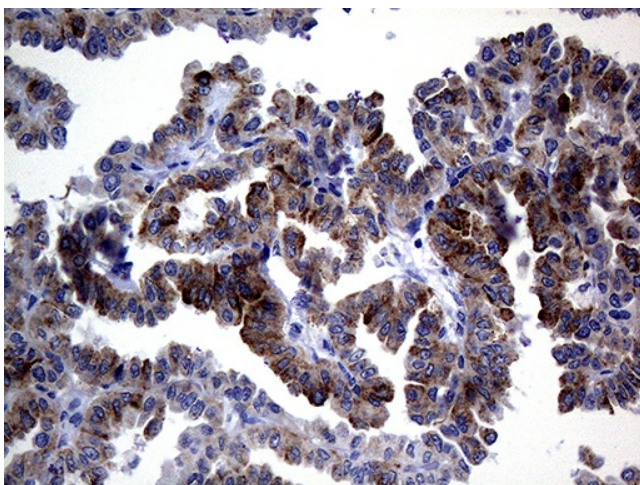
Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

**Product images:**


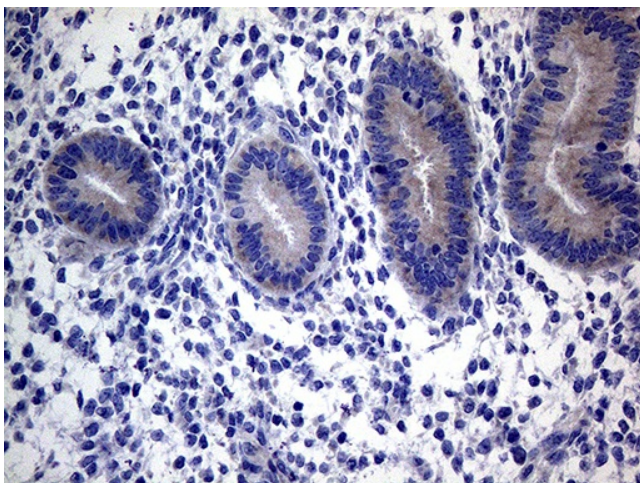
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ACVR2A (Cat# [RC210227], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ACVR2A (Cat# [TA807404])(1:500).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



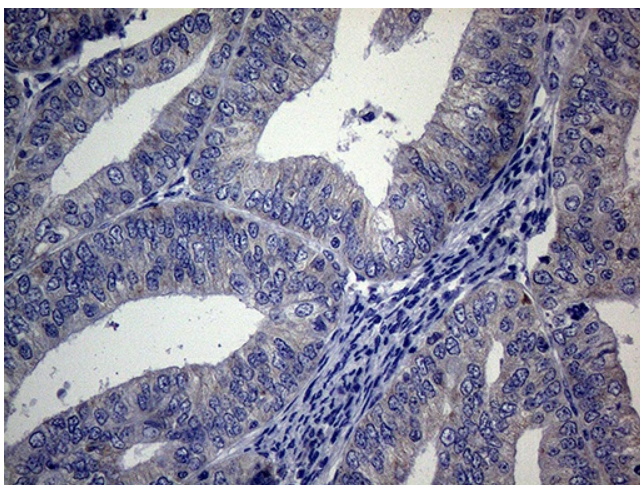
Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-ACVR2A mouse monoclonal antibody. This figure shows negative staining. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-ACVR2A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-ACVR2A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-ACVR2A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.