

## Product datasheet for **TA323144**

### Activin Receptor Type IIA (ACVR2A) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: 293T cells, human fetal brain tissue and K562 cells, human fetal liver tissue and Hela cells IHC: 25-100 Positive control: Human thyroid cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 346-363 amino acids of Human Activin receptor type-2A
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
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 activin A type II receptor. Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins; composed of a ligand-binding extracellular domain with cysteine-rich region; a transmembrane domain; and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding; resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases.

**Synonyms:**

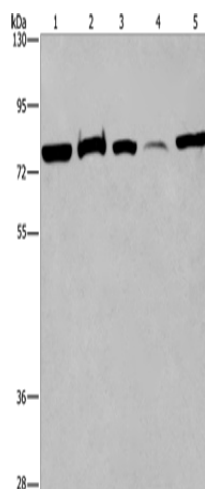
ACTRII; ACVR2

**Protein Families:**

Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:**

Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

**Product images:**

Gel: 6%SDS-PAGE

Lysate: 40 µg

Lane 1-5: 293T cells

human fetal brain tissue

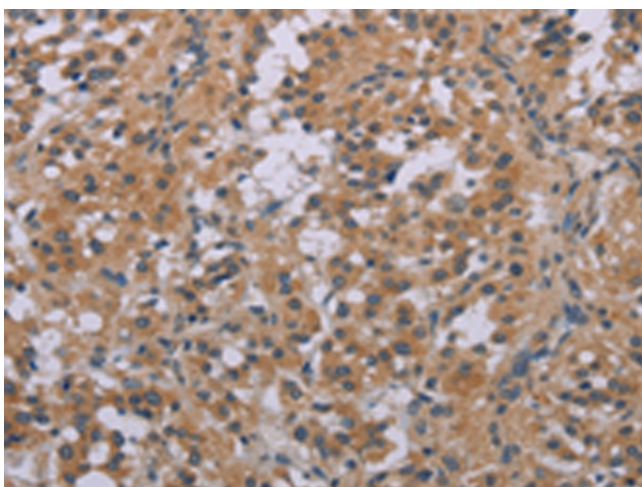
K562 cells

human fetal liver tissue

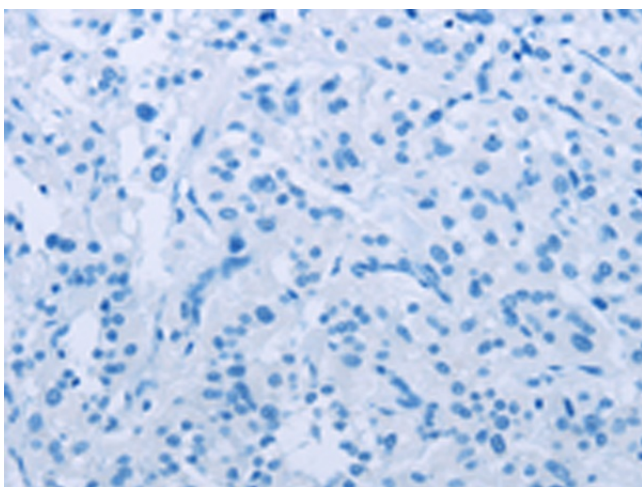
Hela cells

Primary antibody: TA323144 (ACVR2A Antibody)  
at dilution 1/400Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution

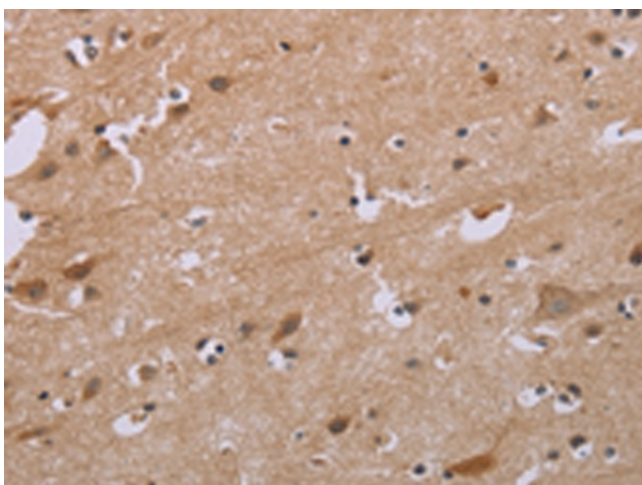
Exposure time: 40 seconds



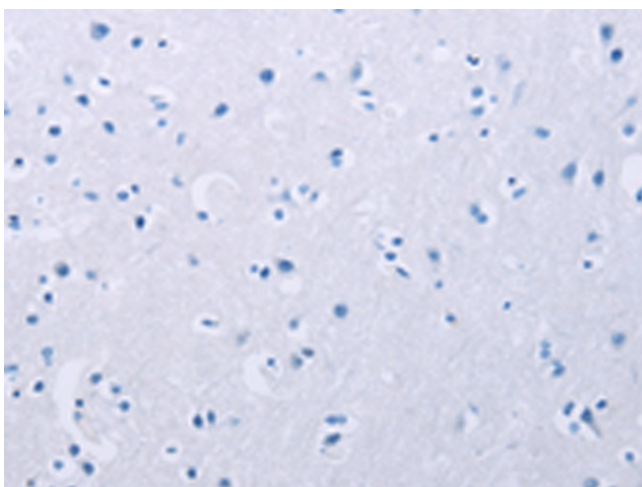
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA323144 (ACVR2A Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA323144 (ACVR2A Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human brain tissue using TA323144 (ACVR2A Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human brain tissue using TA323144 (ACVR2A Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )