**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for TA323211S

## BMPR2 Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | IHC |
| **Recommended Dilution:** | IHC: 25-100<br>Positive control: Human brain<br>Predicted cell location: Cytoplasm, Nucleus |
| **Reactivity:** | Human, Mouse |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Immunogen:** | Fusion protein corresponding to a region derived from C terminal 250 amino acids of human bone morphogenetic protein receptor, type II (serine/threonine kinase) |
| **Formulation:** | PBS pH7.3, 0.05% NaN3, 50% glycerol |
| **Purification:** | Antigen affinity purification |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Gene Name:** | bone morphogenetic protein receptor type 2 |
| **Database Link:** | NP_001195<br>Entrez Gene 12168 MouseEntrez Gene 659 Human<br>Q13873 |

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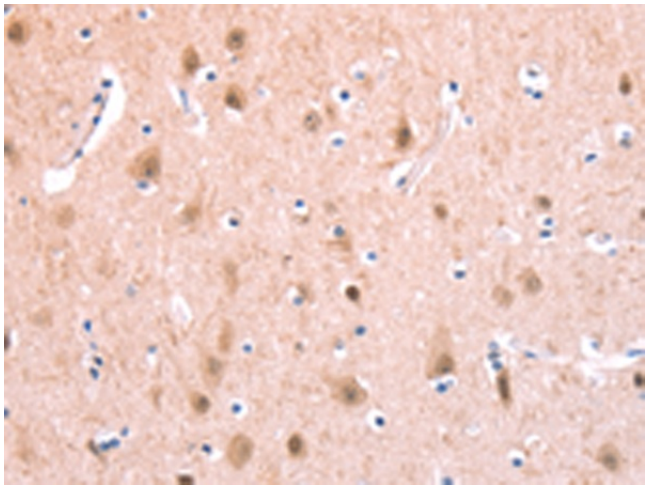
**Background:** This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs; which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of two different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors; but they require their respective type I receptors for signaling; whereas type I receptors require their respective type II receptors for ligand binding. Mutations in this gene have been associated with primary pulmonary hypertension; both familial and fenfluramine-associated; and with pulmonary venoocclusive disease.

**Synonyms:** BMPR-II; BMPR3; BMR2; BRK-3; POVD1; PPH1; T-ALK

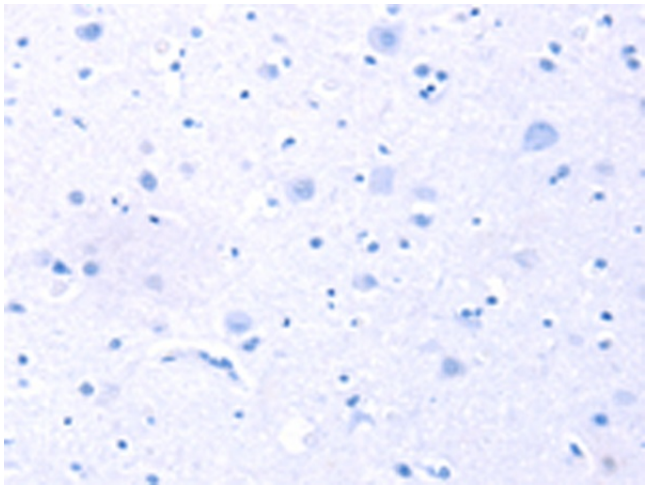
**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

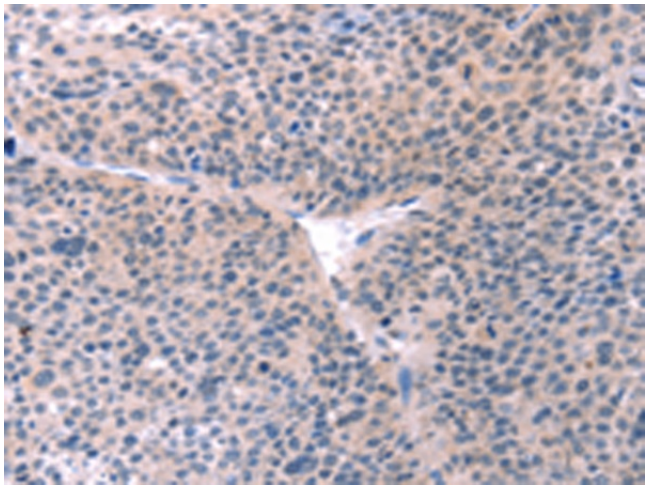
## Product images:



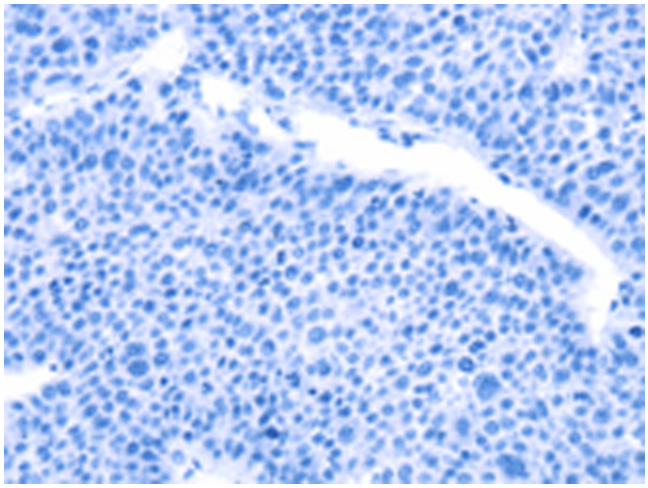
Immunohistochemistry of paraffin-embedded Human brain tissue using [TA323211] (BMPR2 Antibody) at dilution 1/35 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using [TA323211] (BMPR2 Antibody) at dilution 1/35, treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA323211] (BMPR2 Antibody) at dilution 1/35 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA323211] (BMPR2 Antibody) at dilution 1/35, treated with fusion protein. (Original magnification: ×200)