Anti-BMP receptor type IA [AbD1556] Standard Size Ab00426-10.7

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Human IgG1 sequence with a short dimerization domain to improve stability and a his tag.

> This reformatted human antibody was made using the variable domain sequences of the original Human Fab format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human F(ab)2, AbFab2™ His-Tagged, Lambda

Clone Number: AbD1556

Alternative Name(s) of Target: BMPR-IA

UniProt Accession Number of Target Protein: P36894

Published Application(s): Blocking, SPR, ELISA

Published Species Reactivity: Human

Immunogen: Biotinylated BMPR-IA immobilized on a resin.

Specificity: The antibody binds to human BMPR-IA with a low nanomolar affinity.

Application Notes: This antibody binds to human BMPR-1A, which, on ligand bindingg, forms a receptor complex acting as a serine/threonine kinase, activating SMAD transcriptional regulators. They positively regulate chondrocyte differentiation, for example. The antibody neutralizes BMP-binding to the receptor.

Antibody First Published in: Harth et al. A selection fit mechanism in BMP receptor IA as a possible source for BMP ligand-receptor promiscuity. PLOS One 2010; 5(9): e13049 PMID:20927405

Note on publication: Describes the generation of several anti BMPR-IA antibodies and subsequent crystallisation as well as binding studies.

Product Form

Size: 100 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4⁰C for up to 3 months. For longer storage, aliquot and store at -20⁰C.

Concentration:

1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.