

Anti-BMP receptor type IA [AbD1556] Standard Size Ab00426-1.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric mouse 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: Mouse IgG1, Fc Silent™, 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 binding, 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: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

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.