

DATASHEET

Version: 2016-08-17

BMP-7 Antibody (2C2F8), mAb, Mouse

Cat. No.: A01283-40

Size: 40 µg

Synonyms: Mouse Anti-huBMP-7 mAb;

Description:

BMP-7, or osteogenic protein 1 (OP-1), is one of at least 15 structurally and functionally related BMPs, all members of the transforming growth factor β (TGF-β) superfamily. BMPs regulate cartilage and bone formation, embryogenesis and morphogenesis of various tissues and organs, and the growth, differentiation, chemotaxis and apoptosis of various cell types. Biologically active BMP-7 is a disulfide-linked homodimer. Cellular responses to BMP-7 have been shown to be mediated by the formation of hetero-oligomeric complexes of type I and type II serine/threonine kinase receptors.

GenScript **Human BMP-7 Antibody (2C2F8), mAb, Mouse** is produced from the hybridoma resulting from fusion of Sp2/0 myeloma and lymphocytes obtained from mouse immunized with purified human recombinant BMP-7 protein (Swiss Prot: P18075).

Immunogen: Purified human recombinant BMP-7 protein (Swiss Prot: P18075)

Host: Mouse

Antigen Synonyms: Human

Conjugation: Unconjugated

Fusion Partner:

Spleen cells are fused with SP2/0-Ag14 mouse myeloma cells.

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Clone: 2C2F8

Ig Subclass: IgG2a, k

Specificity: React with Human BMP-7, not cross-react with

BMP-14 protein.

Purification: Protein A affinity column

Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA Capture: 0.5-10 µg/ml

ELISA Detection: 0.05-0.2 µg/ml

Recommended antibody pairing for sandwich immunoassay:

Capture \ Detection	A01283 (2C2F8)	A01284 (4C3G8)	A01285 (2A5F3)	A01286 (1G10H5)
A01283 (2C2F8)		+	+	+
A01284 (4C3G8)	+		+	+
A01285 (2A5F3)	+	+		+
A01286 (1G10H5)	+	+	+	

Other applications: user-optimized

Species Reactivity: Human

Reconstitution:

Reconstitute the lyophilized antibody with deionized water (or equivalent) to a final concentration of 0.5 mg/ml.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.