Anti-BGN antibody

Cat. No.	ml221985
Package	25 µl/100 µl/200 µl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-BGN rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human BGN
Reactivity	Human, Mouse, Rat
Content	0.6 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	BGN
Full name	biglycan

Synonyms	PGI; DSPG1; PG-S1; SLRR1A
Swissprot	P21810

Target Background

The protein encoded by this gene is a small cellular or pericellular matrix proteoglycan that is closely related in structure to two other small proteoglycans, decorin and fibromodulin. The encoded protein and decorin are thought to be the result of a gene duplication. Decorin contains one attached glycosaminoglycan chain, while this protein probably contains two chains. For this reason, this protein is called biglycan. This protein plays a role in assembly of collagen fibrils and muscle regeneration. It interacts with several proteins involved in muscular dystrophy, including alpha-dystroglycan, alpha- and gamma-sarcoglycan and collagen VI, and it is critical for the assembly of the dystrophin-associated protein complex.
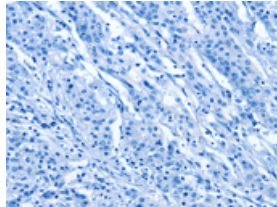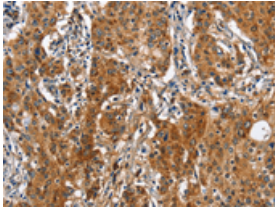
Applications

Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human gasrtic cancer
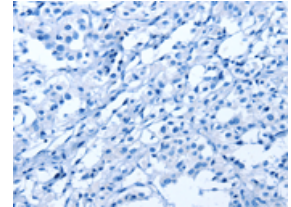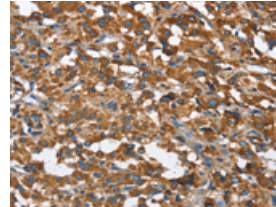
Recommended dilution: 50-200

The image on the left is immunohistochemistry of paraffin-embedded Human gasrtic cancer tissue using ml221985(BGN Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: ×200)

Predicted cell location: Cytoplasm

Positive control: Human thyroid cancer

Recommended dilution: 50-200

The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml221985(BGN Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: ×200)

Western blotting

Predicted band size:42 kDa

Positive control:Hela cells
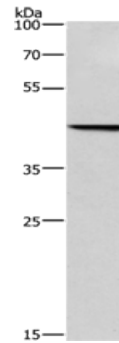
Recommended dilution: 200-1000

Gel: 8%SDS-PAGE

Lysate: 40 μg

Lane: Hela cells

Primary antibody: ml221985(BGN Antibody) at dilution 1/550

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 30 seconds

ELISA

Recommended dilution: 1000-2000

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