

# Product Datasheet

## Biglycan Antibody (4E1-1G7) - Azide and BSA Free H00000633-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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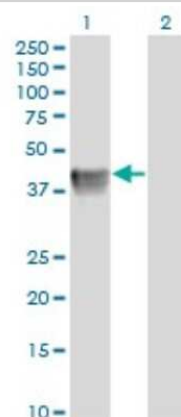
**H00000633-M01**

Biglycan Antibody (4E1-1G7) - Azide and BSA Free

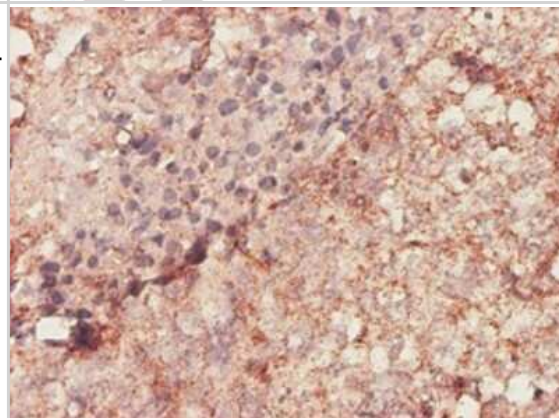
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4E1-1G7
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Product Description</b>	
<b>Description</b>	Quality control test: Antibody Reactive Against Recombinant Protein.
<b>Host</b>	Mouse
<b>Gene ID</b>	633
<b>Gene Symbol</b>	BGN
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	BGN - biglycan
<b>Immunogen</b>	BGN (AAH02416.1, 1 a.a. ~ 368 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MWPLWRLVSL LALSQALPFEQ RGFWDFTLDDGPFMMNDEEASGADTSGVLD PDSVTPTYSAMCPFGCHCHLRVVQCSDLGLKSVPKEISPD TLLDLQNDISEL RKDDFKGLQHLYALVLVNNKISKIHEKAFSPLRKLQKLYISK NHLVEIPP NLPSSL VELRIHDNRIRKVPKGVFSGLRNMNCIEMGGNPLENSGFEPGAFDGLKLN YLRI SEAKLTGIPKDLPETL NELHLDHNKIQAIELEDLLRYSKLYRLGLGHNQIRMIENG SLSFLPTLRELHLDNNKLARVPSGLPDLKLLQVVYLH SNNITKVG VDNDFCPMGF GVKRAYYNGISLFN NPVPYWEVQPATFRCVTDRLAIQFGNYKK
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunohistochemistry 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
<b>Application Notes</b>	Antibody reactivity against cell lysate and recombinant protein for WB.

## Images

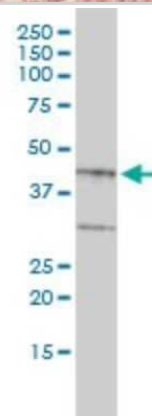
Western Blot: Biglycan Antibody (4E1-1G7) [H00000633-M01] - Analysis of BGN expression in transfected 293T cell line by BGN monoclonal antibody (M01), clone 4E1-1G7. Lane 1: BGN transfected lysate(41.7 KDa). Lane 2: Non-transfected lysate.



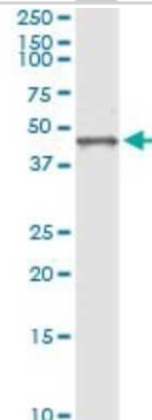
Immunohistochemistry-Paraffin: Biglycan Antibody (4E1-1G7) [H00000633-M01] - Analysis of monoclonal antibody to BGN on formalin-fixed paraffin-embedded human lung, adenocarcinoma. Antibody concentration 1 ~ 10 ug/ml.



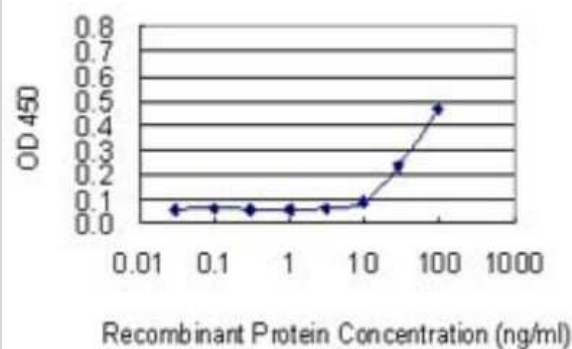
Western Blot: Biglycan Antibody (4E1-1G7) [H00000633-M01] - BGN monoclonal antibody (M01), clone 4E1-1G7 Analysis of BGN expression in HepG2.



Immunoprecipitation: Biglycan Antibody (4E1-1G7) [H00000633-M01] - Analysis of BGN transfected lysate using anti-BGN monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with BGN MaxPab rabbit polyclonal antibody.



ELISA: Biglycan Antibody (4E1-1G7) [H00000633-M01] - Detection limit for recombinant GST tagged BGN is 3 ng/ml as a capture antibody.



ELISA: Biglycan Antibody (4E1-1G7) [H00000633-M01] - Detection limit for recombinant GST tagged BGN is 0.03 ng/ml as a capture antibody.



## Publications

Ana T, Bruna M, Ricardo S et al. Deep learning neural network image analysis of immunohistochemical protein expression reveals a significantly reduced expression of biglycan in breast cancer. PLoS One. 2023-03-27 [PMID: 36972253]

Pedro N, Rafael K, Jorge B et al. Breast cancer dataset with biomarker Biglycan. Data Brief. 2023-02-14 [PMID: 36879615]

Zhang X, Lee SJ, Young MF, Wang MM. The Small Leucine-Rich Proteoglycan BGN Accumulates in CADASIL and Binds to NOTCH3. Transl Stroke Res. 2015-01-13 [PMID: 25578324]



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### **Products Related to H0000633-M01**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP1-84971PEP	Biglycan Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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