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antibody and ELISA experts

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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-CD32 FCGR2B Antibody

Catalog Number: A01690-1

Overview

Product Name	Anti-CD32 FCGR2B Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CD32 FCGR2B Antibody catalog # A01690-1. Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC, WB
Clonality	Polyclonal
Formulation	Liquid in PBS containing 50% glycerol, 0.5% stabilizing protein and 0.02% sodium azide. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P31994

Technical Details

Immunogen	The antiserum was produced against synthesized peptide derived from human CD32. AA range:277-326
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Suggested Dilutions	WB 1:500-1:2000 IHC 1:100-1:300 ELISA 1:5000 IF 1:50-200

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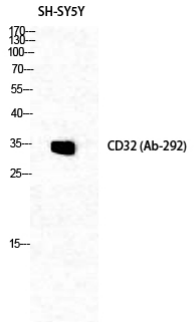
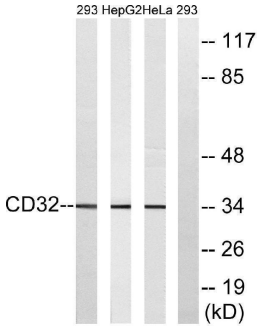
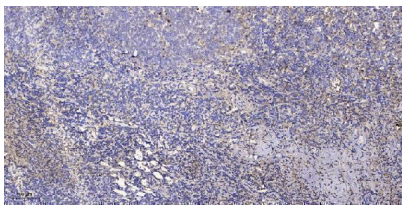
Anti-CD32 FCGR2B Antibody (A01690-1) Images



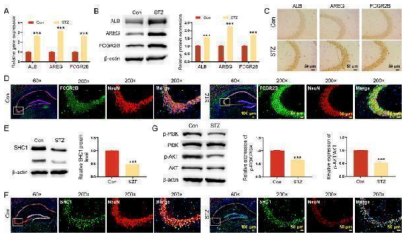
Western Blot analysis of SH-SY5Y cells using CD32 Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from 293, HepG2, and HeLa cells, treated with PMA 125ng/ml 30', using CD32 Antibody. The lane on the right is blocked with the synthesized peptide.

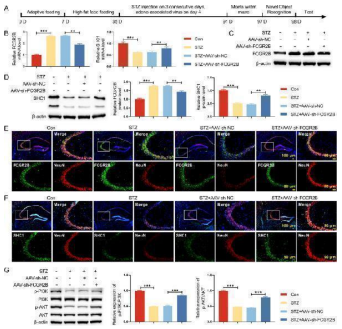


Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 30min).

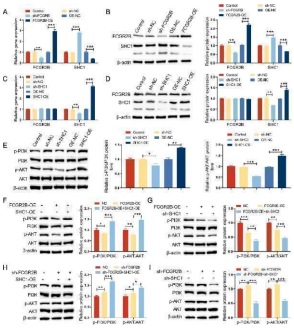


FCGR2B were up-regulated in hippocampus of DM mice. A qRT-PCR was performed to detect the expression of ALB, AREG and FCGR2B mRNA expression in hippocampus of mice. B Western blot was conducted to detect the ALB, AREG and FCGR2B protein expression in hippocampus of mice. C IHC assay was employed to examine the ALB, AREG and FCGR2B protein expression in hippocampus of mice. D IF staining was utilized to detect the expression of FCGR2B and NeuN in hippocampus of mice. E Western blot was performed to detect the SHC1 protein expression in hippocampus of mice. F IF staining was performed to detect the expression of SHC1 and NeuN in hippocampus of mice. G Western blot was used to detect the p-PI3K and p-AKT protein expression in hippocampus of mice. *** P < 0.001 Full size imageIndex in PubMed under a CC BY license. PMID: 40537751

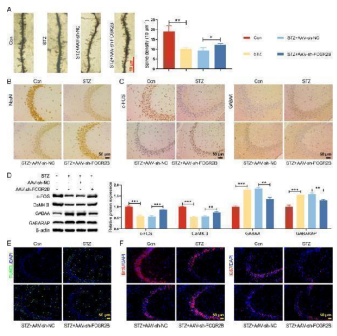
Knockdown FCGR2B could promote the PI3K/AKT signaling pathway in vivo. A The work flow chart of how to construct a DM mouse model. B The mRNA levels of FCGR2B and SHC1 were assessed by qRT-PCR. C The protein levels of FCGR2B and SHC1 were evaluated by Western blot. D The protein



level of SHC1 was determined by Western blot. E IF staining was used to detect the expression of FCGR2B and NeuN in hippocampus of mice. F IF staining was performed to detect the expression of SHC1 and NeuN in hippocampus of mice. G The expressions of p-PI3K and p-AKT in hippocampus of mice were evaluated by Western blot. ** P < 0.01, *** P < 0.001 Full size imageIndex in PubMed under a CC BY license. PMID: 40537751



FCGR2B regulates the PI3K/AKT signaling pathway via downstream SHC1 in vitro. A qRT-PCR was employed to detect the expression of FCGR2B and SHC1 mRNA expression in HT22 cells after transfection of FCGR2B shRNA or FCGR2B plasmid. B Western blot was used to examine the expression of FCGR2B and SHC1protein expression in HT22 cells after transfection of FCGR2B shRNA or FCGR2B plasmid. C qRT-PCR was performed to detect the expression of FCGR2B and SHC1 mRNA expression in HT22 cells after transfection of SHC1 shRNA or SHC1 plasmid. D Western blot was used to examine the expression of FCGR2B and SHC1 protein expression in HT22 cells after transfection of SHC1 shRNA or SHC1 plasmid. E Western blot was conducted to examine the expression of p-PI3K and p-AKT expression in HT22 cells after transfection of SHC1 shRNA or SHC1 plasmid. F Western blot was used to examine the expression of p-PI3K and p-AKT expression in HT22 cells after transfection of SHC1 plasmid alone or combined with FCGR2B plasmid. G Western blot was performed to examine the expression of p-PI3K and p-AKT expression in HT22 cells after transfection of FCGR2B plasmid alone or combined with SHC1 shRNA. H Western blot was performed to examine the expression of p-PI3K and p-AKT expression in HT22 cells after transfection of FCGR2BshRNA alone or combined with SHC1 plasmid. I Western blot was performed to examine the expression of p-PI3K and p-AKT expression in HT22 cells after transfection of FCGR2B shRNA alone or combined with SHC1 shRNA. * P < 0.05, ** P < 0.01, *** P < 0.001 Full size imageIndex in PubMed under a CC BY license. PMID: 40537751



Knockdown FCGR2B improved hippocampal neuronal excitability. A Representative images of Golgi staining of the hippocampal neuronal spines from the mice. B IHC assay was performed to examine the expression of NeuN in hippocampus of mice. C IHC assay was used to examine the expression of c-fos and GABAA in hippocampus of mice. D The expressions of c-fos, CaMKII, GABAA, and GABAARAP in hippocampus of mice were detected by Western blot. E TUNEL staining was conducted to assess cell apoptosis in hippocampus. F IF was used to detect BrdU and Ki67 positive cells in hippocampaltissue to analyzecell proliferation * P < 0.05, ** P < 0.01, *** P < 0.001 Full size imageIndex in PubMed under a CC BY license. PMID: 40537751

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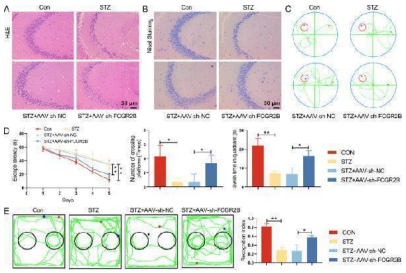

Knockdown FCGR2B alleviated DM-induced cognition impairment in vivo. A H&E staining evaluated the pathological changes of hippocampus. B Neuronal damage of the hippocampal region was assessed by Nissl staining. C - D Morris water maze test was evaluated the learning and memory ability of mice by the escape latency time, number of crossing platform and swimming time in quadrant. E The recognition index among 4 groups in the novel object recognition test. * P < 0.05,** P < 0.01 Full size imageIndex in PubMed under a CC BY license. PMID: 40537751

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