BOSTER
antibody and ELISA experts

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

Anti-TGF beta 1 Rabbit Monoclonal Antibody

Catalog Number: M00019-4

Overview

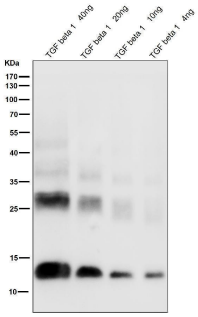
Product Name	Anti-TGF beta 1 Rabbit Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-TGF beta 1 Rabbit Monoclonal Antibody catalog # M00019-4. Tested in WB application. This antibody reacts with Human.
Application	WB
Clonality	Monoclonal 17T29
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *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	P01137

Technical Details

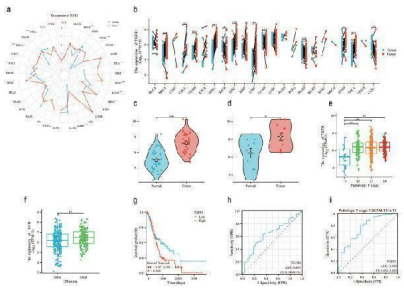
Immunogen	A synthesized peptide derived from human TGF beta 1
Isotype	IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000

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

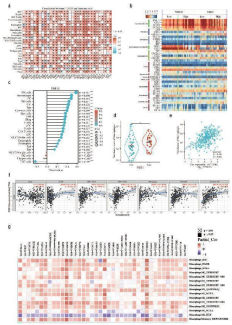
Anti-TGF beta 1 Rabbit Monoclonal Antibody (M00019-4) Images



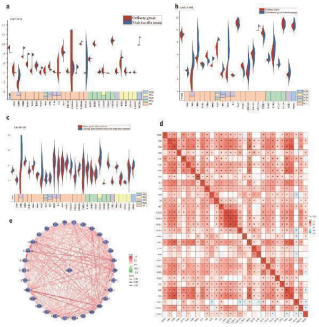
All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



The prognosis of gastric adenocarcinoma suggests that TGFbeta1 has great potential. a The pan cancer expression of TGFbeta1 in the TCGA database. b The pan cancer expression of TGFbeta1 in paired samples in the TCGA database. c The expression of TGFbeta1 in the dataset. d The expression of TGFbeta1 in the dataset. e T staging results of TGFbeta1. f The differential expression of TGFbeta1 in the quality of life of different patients. g Comparing the prognosis between high and low TGFbeta1 groups based on the g KM survival curve. h Analyze the predictive accuracy and efficacy of TGFbeta1 in GC queue diagnosis. i Diagnostic prediction of TGFbeta1 in different T stages of GC queue. *p



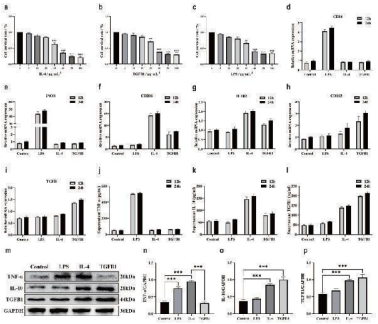
The association between TGFbeta1 and the immune microenvironment associated with GC tumors. a TGFbeta1 pan cancer status and tumor associated immune cell correlation heatmap in TCGA database. b The expression of cell markers in the dataset. c GC tumor associated immune cells and TGFbeta1 correlation bar chart. d Box plot of the correlation between TGFbeta1 differential expression group and macrophages. e Scatter plot showing the association between TGFbeta1 and macrophages. f The correlation results between TGFbeta1 and GC immune infiltrating cells in TIMER database. g Correlation heatmap between TGFbeta1 and macrophage subtypes. *p



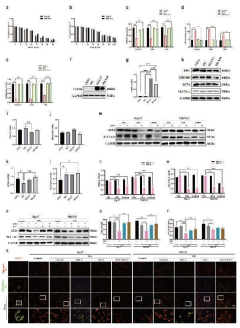
There is a close correlation between TGFbeta1 and polarization of M2c macrophages. a The expression results of different biomarkers in the dataset. b The expression results of different biomarkers in the dataset. c The expression results of different biomarkers in the dataset. d Heat map of the association between TGFbeta1 and different subtypes of macrophages. e The relationship between TGFbeta1 and different subtypes of macrophage marker networks. *p

Different inducers promote polarization of different subtypes of macrophages. a The CCK-8 method was used to detect

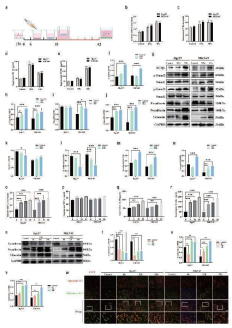
BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com



the survival of M0 macrophages after 24 h of IL-4 intervention. b The CCK-8 method was used to detect the survival of M0 macrophages after 24 h of intervention with TGFbeta1. c The CCK-8 method was used to detect the survival of M0 macrophages after LPS intervention for 24 h. d RT-qPCR was used to detect the expression of CD86 mRNA. e RT-qPCR was used to detect the expression of iNOS mRNA. f RT-qPCR was used to detect the expression of CD206 mRNA. g RT-qPCR was used to detect the expression of IL1R2 mRNA. h RT-qPCR was used to detect the expression of CD163 mRNA. i RT-qPCR was used to detect the expression of TGFbeta mRNA. j ELISA detects TNF - alpha levels. k ELISA was used to detect IL-10 levels. l ELISA detects the content of TGFbeta1. m The WB results of different interventions on histone expression. f TNF-alpha protein expression results. f IL-10 protein expression results. f TGFbeta1 protein expression results. *p



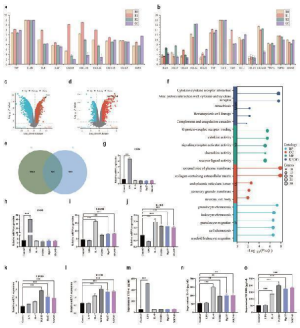
M2c macrophages increase ferroptosis resistance in gastric cancer cells. a The CCK-8 method was used to detect the survival of gastric cancer cells (Hgc27 and MKN45) intervened with RSL3 for 24 h. b The CCK-8 method was used to detect the survival of gastric cancer cells (Hgc27 and MKN45) intervened with Fer-1 for 24 h. c The expression of SOD in different intervention groups. d The expression of MDA in different intervention groups. e The expression of GSH in different intervention groups. f The expression of TGFbeta1 protein WB in different cell lines. g The expression results of TGFbeta1 protein. h The expression of key ferroptosis proteins WB in different cell lines. i The expression results of FSP1 protein. j Expression results of DHODH protein. k Expression results of GPX4 protein. l SLC7A11 protein expression results. m The intervention of RSL3 on the expression of key ferroptosis protein WB in different co culture groups. n The expression results of GPX4 protein. o SLC7A11 protein expression results. p The WB expression of key proteins involved in ferroptosis in different intervention groups. q The expression results of GPX4 protein. r The expression results of SLC7A11 protein. s Fluorescence results of mitochondrial membrane potential in different intervention groups. Scale bar=50 um. *p



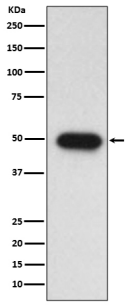
The effect of M2 subtype macrophages on TGFbeta1 related pathway and epithelial mesenchymal transition in gastric cancer cells. a Cell intervention pattern diagram. b RT-qPCR was used to detect the levels of TGFbeta mRNA in different intervention groups. c ELISA was used to test the expression of TNF-alpha in different intervention groups. d ELISA test the expression of IL-10 in different intervention groups. e ELISA was used to test the expression of TGFbeta1 in different intervention groups. f The expression results of TGFbeta1 protein. g The WB results of different interventions on histone expression. h The expression results of p-Smad2 protein. i The expression results of Smad2 protein. j The expression results of p-Smad3 protein. k The expression results of Smad3 protein. l The expression results of E-cadherin protein. m Results of N-cadherin protein expression. n Results of Vimentin protein expression. o RT-

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

qPCR was used to detect the content of TGFbeta mRNA at different intervention times. p ELISA was used to test the expression of TNF-alpha at different intervention times. q ELISA test the expression of IL-10 at different intervention times. r ELISA was used to test the expression of TGFbeta1 at different intervention times. s WB results of protein expression at different intervention times. t The expression results of E-cadherin protein. u The expression results of N-cadherin protein. v Results of Vimentin protein expression. w Fluorescence results of mitochondrial membrane potential at different intervention times. Scale bar=50 um. *p



The role of gastric cancer cells in transforming macrophages in the TME. a The expression of M1 macrophage marker proteins in different groups. b The expression of M2 macrophage marker proteins in different groups. c Differential gene expression between M0 and gastric cancer cell metabolite intervention group. d Differential gene expression between M2 and gastric cancer cell metabolite intervention group. e Intersection statistics of differentially expressed genes between M2 and gastric cancer cell metabolite intervention group. f Intersection gene enrichment statistics. g RT-qPCR was used to detect the expression of CD86 mRNA. h RT-qPCR was used to detect the expression of iNOS mRNA. i RT-qPCR was used to detect the expression of CD206 mRNA. j RT-qPCR was used to detect the expression of IL1R2 mRNA. k RT-qPCR was used to detect the expression of CD163 mRNA. l RT-qPCR was used to detect the expression of TGFbeta mRNA. m ELISA was used to detect TNF-alpha levels. n ELISA detects IL-10 levels. o ELISA detects the content of TGFbeta1. *p



Western blot analysis of TGF beta 1 expression in A549 lysate.

Anti-TGF beta 1 Rabbit Monoclonal Antibody

For Research Use Only. Not for use in diagnostic procedures.