

Anti-TWEAKR Rabbit Monoclonal Antibody

Catalog Number: M06261

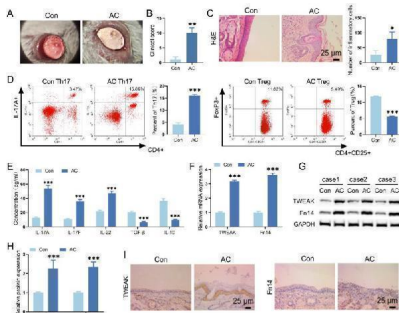
Overview

Product Name	Anti-TWEAKR Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TWEAKR Rabbit Monoclonal Antibody catalog # M06261. Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	IP, IHC, WB
Clonality	Monoclonal GFF-20
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	Q9NP84

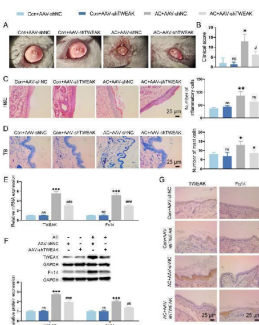
Technical Details

Immunogen	A synthesized peptide derived from human TWEAKR
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200 IP 1:20

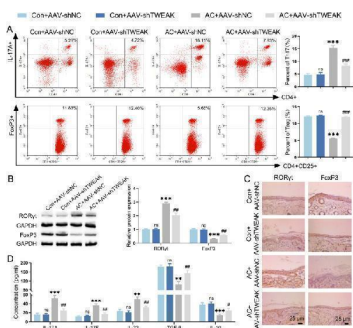
Anti-TWEAKR Rabbit Monoclonal Antibody (M06261) Images



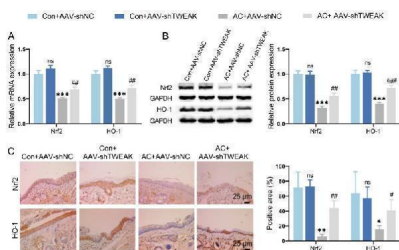
Th17/Treg cell differentiation ratio and TWEAK/Fn14 signaling level in AC mice. (A) The state of mice ocular surface was observed by slit-lamp. (B) The clinical scores of mice were performed according to the status of eyelid, conjunctiva and cornea. (C) HE staining was utilized to evaluate the pathological changes of conjunctival tissue in mice. (D) The proportion of Th17 or Treg cells in spleen of mice was assessed by flow cytometry. (E) The levels of Th17 and Treg cytokines in mice spleen were evaluated by ELISA. (F-H) TWEAK and Fn14 levels in ocular conjunctival tissue were measured by qRT-PCR and WB. (I) IHC was used to observe the protein level of TWEAK and Fn14 in ocular conjunctival tissue. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ vs. Control. Index in PubMed under a CC BY license. PMID: 39592944



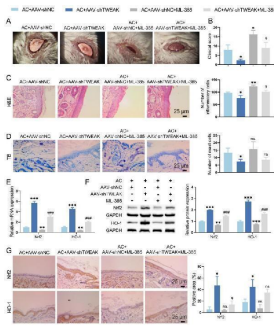
TWEAK knockdown affected conjunctivitis in AC mice. (A) The effect of TWEAK knockdown on the state of mice ocular surface was observed under slit-lamp. (B) Clinical score of eyelid, conjunctiva and cornea to assess the effect of TWEAK knockdown in AC mice. (C-D) HE staining and TB staining were utilized to evaluate the effect of TWEAK knockdown on conjunctivitis in mice. (E-G) The levels of TWEAK and Fn14 in conjunctival tissue were detected by qRT-PCR, IHC and WB. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ vs. Con + AAV-shNC; # $p < 0.05$, ## $p < 0.01$, ### $p < 0.001$ vs. AC + AAV-shNC; ns, no significant difference. Index in PubMed under a CC BY license. PMID: 39592944



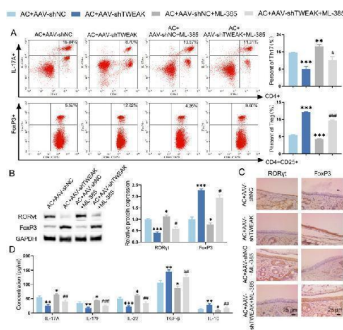
TWEAK regulated the Th17/Treg cell ratio in AC mice. (A) The effect of TWEAK knockdown on Th17 and Treg cell ratio in spleen of AC mice was observed by flow cytometry. (B-C) WB and IHC were employed to evaluate the expression levels of FoxP3 and RORgammat in mice conjunctival tissue. (D) The effect of TWEAK knockdown on the levels of Th17 and Treg cytokines in mice spleen were evaluated by ELISA. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ vs. Con + AAV-shNC; # $p < 0.05$, ## $p < 0.01$, ### $p < 0.001$ vs. AC + AAV-shNC; ns, no significant difference. Index in PubMed under a CC BY license. PMID: 39592944



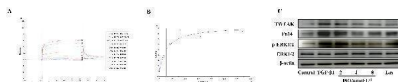
TWEAK knockdown promoted Nrf2/HO-1 signaling pathway in AC mice. (A) qRT-PCR was utilized to measure the effect of TWEAK knockdown on Nrf2 and HO-1 mRNA levels in conjunctival tissue of mice. (B-C) The effect of TWEAK knockdown on protein levels of Nrf2 and HO-1 in conjunctival tissue of mice were detected by WB and IHC. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ vs. Con + AAV-shNC; # $p < 0.05$, ## $p < 0.01$, ### $p < 0.001$ vs. AC + AAV-shNC; ns, no significant difference. Index in PubMed under a CC BY license. PMID: 39592944



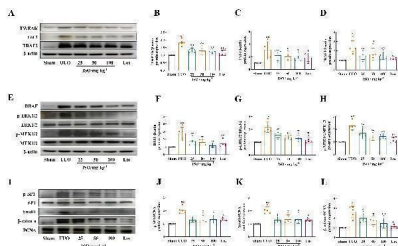
Inhibition of Nrf2/HO-1 signaling pathway affected the improvement of conjunctivitis in AC mice from TWEAK knockdown. (A) The effect of Nrf2 inhibitor on ocular surface status was observed by slit-lamp in AC mice with TWEAK knockdown. (B) Clinical score of eyelid, conjunctiva and cornea to assess the effect of Nrf2 inhibitor in AC mice with TWEAK knockdown. (C-D) HE staining and TB staining were employed to evaluate the effect of Nrf2 inhibitor on conjunctivitis in AC mice with TWEAK knockdown. (E-G) The levels of Nrf2 and HO-1 in conjunctival tissue were detected by qRT-PCR, IHC and WB. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ vs. AC + AAV-shNC; # $p < 0.05$, ## $p < 0.01$, ### $p < 0.001$ vs. AC + AAV-shTWEAKIndex in PubMed under a CC BY license. PMID: 39592944



Inhibition of Nrf2/HO-1 signaling pathway affected Th17/Treg cell ratio in AC mice with TWEAK knockdown. (A) The effect of Nrf2 inhibitor on Th17/Treg cell ratio in AC mice with TWEAK knockdown was assessed by flow cytometry. (B-C) WB and IHC assays were employed to evaluate the expression of FoxP3 and RORgamma in conjunctival tissue of AC mice. (D) The levels of Th17 and Treg cytokines in mice spleen were detected by ELISA. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ vs. AC + AAV-shNC; # $p < 0.05$, ## $p < 0.01$, ### $p < 0.001$ vs. AC + AAV-shTWEAKIndex in PubMed under a CC BY license. PMID: 39592944

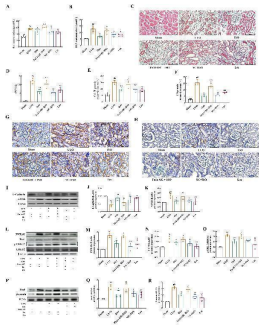


Effects of ISO on the TWEAK/Fn14 signaling pathway in TGF-beta1-induced HK-2 cells. (A, B) ISO directly interacts with Fn14, dose-response sensorgrams, and the affinity constant ($K_d = 5.47 \mu M$) of ISO with Fn14. (C-F) Western blot analysis of TWEAK, Fn14, and the phosphorylation levels of ERK1/2 in TGF-beta1-induced HK-2 cells. beta-actin was used as the loading control. Data are expressed as mean \pm SD ($n = 3$). # p

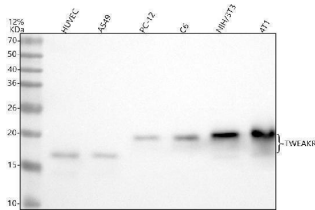


Effect of ISO on the expression of TWEAK/Fn14 signaling pathway-related proteins in UUO rats. Representative images and quantification of Western blot results of the protein expression of TWEAK, Fn14, TRAF2, and BRAF (A-D) , and phosphorylation of MER1/2 and ERK1/2 (E-H) . beta-actin was used as the loading control for total protein. (I-L) Relative optical density analysis of the nucleoprotein expression of p-Sp1, Snail, and beta-catenin. PCNA was used as the loading control for nucleoprotein. All data are expressed as the mean \pm SD ($n = 5$). ## p

Fn14 overexpression compromises the therapeutic effects of ISO and the regulation of ISO on the TWEAK/Fn14 pathway-related proteins on UUO model rats. (A, B) Serum Scr and BUN levels in different groups. (C, D) Representative images and the CVF of Masson staining ($\times 400$). (E-H) Representative and quantification analysis of Col III and FN immunohistochemical staining ($\times 400$). Nuclei were



counterstained with DAPI (blue). (I-K) Western blot and the relative optical densities analysis of E-cadherin and alpha-SMA in kidney tissue. (L-O) Representative images and quantification of Western blot results of the protein expression of TWEAK, Fn14, and phosphorylation of ERK1/2. beta-actin was used as the loading control. (P-R) Relative optical density analysis of the nucleoprotein expression of Snail and beta-actin. PCNA was used as the loading control for nucleoprotein. Data were shown as mean \pm SD (n = 3). ## p



Western blot analysis of TWEAKR using anti-TWEAKR antibody (M06261). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HUVEC whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: rat PC-12 whole cell lysates, Lane 4: rat C6 whole cell lysates, Lane 5: mouse NIH/3T3 whole cell lysates, Lane 6: mouse 4T1 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TWEAKR antigen affinity purified monoclonal antibody (Catalog # M06261) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TWEAKR at approximately 17,20 kDa. The expected band size for TWEAKR is at 17,20 kDa.

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