Datasheet for ABIN97339

anti-CIITA antibody (AA 1)

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Overview

Quantity:	100 µL
Target:	CIITA
Binding Specificity:	AA 1
Reactivity:	Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CIITA antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen used for this study was a bacterially produced recombinant FLAG-CIITA corresponding to through 333 of the human protein. Immunogentype:Recombinant
Characteristics:	Concentration Definition: by Refractometry

Target Details

Target:	CIITA
Alternative Name:	CIITA (CIITA Products)
Background:	Anti-CIITA antibody detects CIITA. The transactivator CIITA regulates basal and interferon-induced expression of Major Histocompatibility Complex class II genes. CIITA restores expression of all MHC class II gene expression in mutant cells and corrects regulatory defects

Target Details

	of MHC class II genes. Antibodies to this transactivator are useful in the study of diseases of pathological MHC class II expression. Antigen can be obtained from Raji cell lysates. Typically levels of CIITA expression are too low to detect endogenous levels of protein expression. Transiently transfected cells are usually employed to study this transcription factor. Synonyms: MHC class II transactivator CIITA MHC2TA
Gene ID:	4261
UniProt:	P33076
Pathways:	Cancer Immune Checkpoints

Application Details

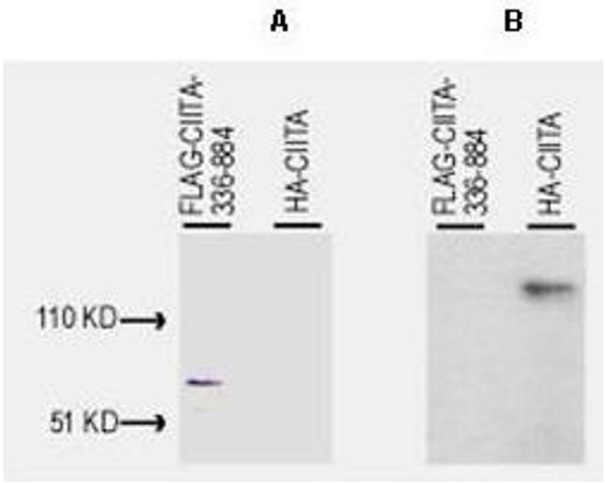
Application Notes:	For immunoblotting a 1:500 dilution is recommended. Researchers should determine optimal titers for other applications.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	90 mg/mL
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Publications

Product cited in:	Tempfer, Kaser-Eichberger, Lehner, Gehwolf, Korntner, Kunkel, Wagner, Gruetz, Heindl, Schroedl, Traweger: "Bevacizumab Improves Achilles Tendon Repair in a Rat Model." in: **Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology**, Vol. 46, Issue 3, pp. 1148-1158, (2018) (PubMed).



Western Blotting

Image 1. Western blot of Anti-CIITA antibody, generated by immunization with bacterially produced FLAG-CIITA aa 1-333, was tested by western blot against lysates of Cos-7 cells after transient transfection, separately, with pcDNA3-FLAG-CIITA-336-884 and pcDNA3-HA-CIITA. For transfection, Fugene 6 (Roche) was used according to the manufacturer's instructions for a 6-well plate format. Cells were lysed 24 h post-transfection in 200 uL of 1x SDS-sample buffer, heated at 96C for 5', and vortexed for 30 sec. Samples (10 uL each) were separated on a 12% SDS-PAGE gel and transferred to PVDF (Millipore) followed by blocking for 45' using TTBS supplemented with 5% non-fat dry milk. All incubations were performed at room temperature. In panel A, both samples on PVDF were incubated with 10 ug/mL mouse anti-FLAG antibody (Sigma) for 45'. After 5X washes with TTBS, reaction with ALP rabbit anti-mouse IgG at 200 ng/mL proceeded for 45' following again by washing as before. The blot was developed using BCIP/NBT. This blot demonstrates that FLAG-CIITA-336-842 was successfully over-expressed in the Cos-7 cells. In panel B, both samples on PVDF were incubated with a 1:500 dilution of anti-CIITA for 45'. After 5X washes with TTBS, reaction with HRP goat anti-rabbit IgG at 10 ng/mL proceeded for 45' following again by washing as before. The membrane was covered with Pico West Substrate solution (Pierce) for 5' and was then placed between the two layers of a standard sheet protector. Kodak O-MAT film was exposed to the blot for 30 sec and was immediately developed. The lane containing the lysate of pcDNA3-HA-CIITA transfected cells contains a single band at ~130 kD molecular weight, whereas the lane containing lysate from pcDNA3-FLAG-CIITA-336-842 transfected cells shows no reactivity. This blot demonstrates that anti-CIITA is specific for amino acids 1-

333 of CIITA and that the antibody is not cross reactive with the FLAG portion of the immunogen.