Datasheet for ABIN964672

anti-ZNF148 antibody

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Overview

Quantity:	100 µL
Target:	ZNF148
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	Purified full length ZBP-89 recombinant protein expressed in E.coli. Immunogen Type: RecombinantProtein
Specificity:	This product was prepared from monospecific antiserum by delipidation and defibrination. This polyclonal antibody is specific for human ZBP-89. Reactivity with ZBP-89 from other species has not been determined.
Characteristics:	The GI tract abundantly expresses growth factors many of which bind and activate the EGF receptor present on mucosal cells. One such factor is the zinc finger protein (ZBP-89) that binds to a GC-rich DNA element in the gastrin promoter and confers EGF responsiveness. The full-length protein functions as a repressor of growth factor signals regulating the gastrin promoter. Several other growth related promoters are also regulated by ZBP-89. ZBP-89 is one of a family of related transcriptional regulators. It has been reported in recent studies that ZBP-89 regulates growth in part by stimulating the cyclin-dependent kinase inhibitor, p21waf1, in a butyrate-dependent manner through recruitment of the histone acetyl transferase p300. Moreover, ZBP-89 triggers growth arrest in a p53-dependent manner by preventing nuclear

Product Details

	export of p53. ZBP-89 also induces apoptosis, but this process occurs independent of p53.
Sterility:	Sterile filtered

Target Details

Target:	ZNF148
Alternative Name:	ZBP-89 (ZNF148 Products)
Background:	The GI tract abundantly expresses growth factors many of which bind and activate the EGF receptor present on mucosal cells. One such factor is the zinc finger protein (ZBP-89) that binds to a GC-rich DNA element in the gastrin promoter and confers EGF responsiveness. The full-length protein functions as a repressor of growth factor signals regulating the gastrin promoter. Several other growth related promoters are also regulated by ZBP-89. ZBP-89 is one of a family of related transcriptional regulators. It has been reported in recent studies that ZBP-89 regulates growth in part by stimulating the cyclin-dependent kinase inhibitor, p21waf1, in a butyrate-dependent manner through recruitment of the histone acetyl transferase p300. Moreover, ZBP-89 triggers growth arrest in a p53-dependent manner by preventing nuclear export of p53. ZBP-89 also induces apoptosis, but this process occurs independent of p53. Synonyms: Transcription factor ZBP89 antibody, Zinc finger DNA binding protein 89 antibody, Zinc finger protein 148 antibody, ZNF 148 antibody
Gene ID:	256711
UniProt:	Q9UQR1

Application Details

Application Notes:	This polyclonal antibody reacts human ZBP-89 in a variety of immunological assays including western blot and ELISA. Although not tested, this antibody is likely functional in immunohistochemistry and immunoprecipitation. For immunoblotting a 1:5,000 dilution is recommended. A band at approximately 89 kDa corresponding to human ZBP-89 is detected. Human monocytes or macrophages or nuclear extracts from PMA treated U937 cells can be used as a positive control. For ELISA a 1:10,000 to 1:30,000 dilution is recommended. Researchers should determine optimal titers for other applications.
Comment:	Gene Name: ZBP-89
Restrictions:	For Research Use only

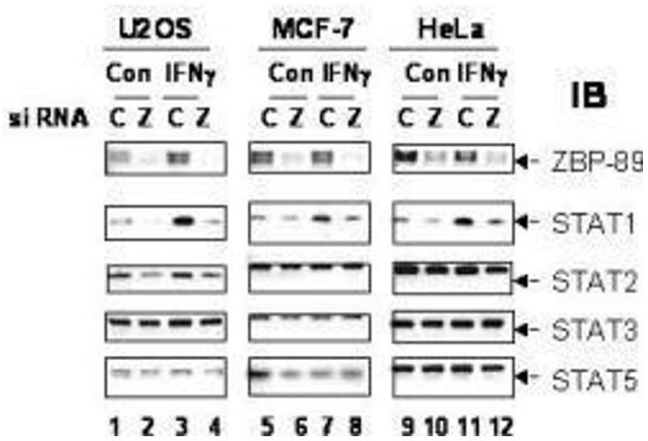
Handling

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:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.
Expiry Date:	12 months

Publications

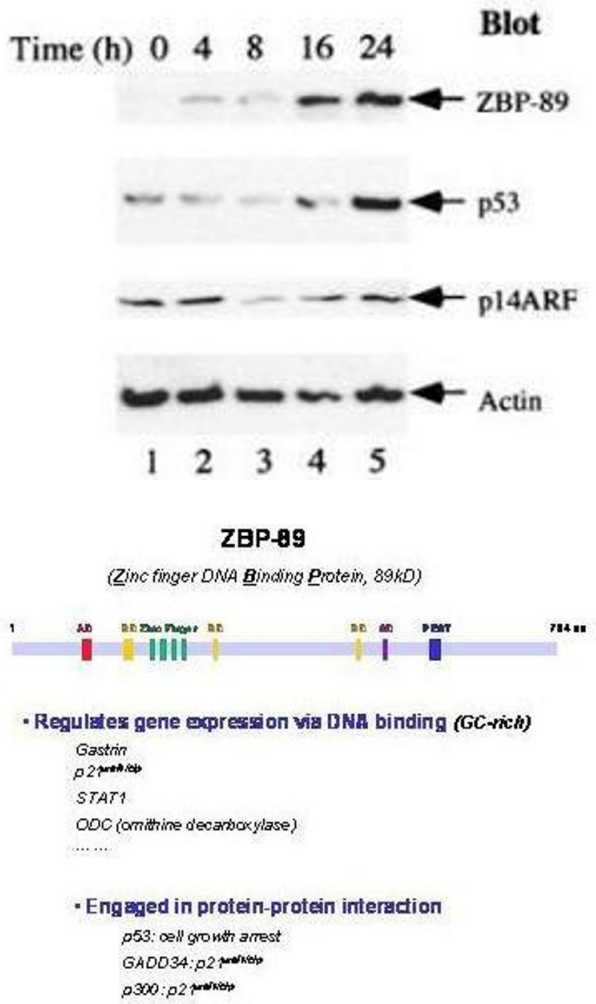
Product cited in:	Jung, Warter, Rumpler: "Localization of stromelysin 2 gene to the q22.3-23 region of chromosome 11 by in situ hybridization." in: **Annales de génétique**, Vol. 33, Issue 1, pp. 21-3, (1990) (PubMed). Muller, Quantin, Gesnel, Millon-Collard, Abecassis, Breathnach: "The collagenase gene family in humans consists of at least four members." in: **The Biochemical journal**, Vol. 253, Issue 1, pp. 187-92, (1988) (PubMed).

Images



Western Blotting

Image 1. Anti-ZBP-89 antibody used to confirm siRNA knockdown of ZBP-89. See Bai and Merchant (2003) for additional details.



Western Blotting

Image 2. Serum starvation induces ZBP-89 and p53 expression. AGS (gastric carcinoma) cells were cultured in serum-free F-12 medium for the indicated times, and western blots were used to detect the expression profiles of ZBP-89, p53, and p14ARF. Blotting was with Rabbit-anti-ZBP-89 antibody. For detection use HRP conjugated Gt-anti-Rabbit IgG MX10 . See Bai and Merchant (2001) for additional details.

Image 3.