

Datasheet for 100-401-685**ZBP-89 Antibody****Overview**

Description:	Anti-ZBP-89 (RABBIT) Antibody - 100-401-685
Item No.:	100-401-685
Size:	100 µL
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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:	rabbit anti-ZBP-89 Antibody, Transcription factor ZBP89 antibody, Zinc finger DNA binding protein 89 antibody, Zinc finger protein 148 antibody, ZNF 148 antibody, Zinc finger protein 148, Transcription factor ZBP-89, ZNF148
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	ZNF148
Reactivity:	Human

Immunogen Type:	Recombinant Protein
Immunogen:	Purified full length ZBP-89 recombinant protein expressed in E.coli.
Purity/Specificity:	Anti-ZBP89 antibody 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.
Relevant Links:	• UniProtKB - Q9UQR1 • NCBI - CAA15422.1 • GeneID - 256711

Application Details

Tested Applications:	ELISA, WB
Application Note:	This polyclonal antibody reacts with human ZBP-89 in a variety of tested 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:30,000
WB:	1:5,000

Formulation

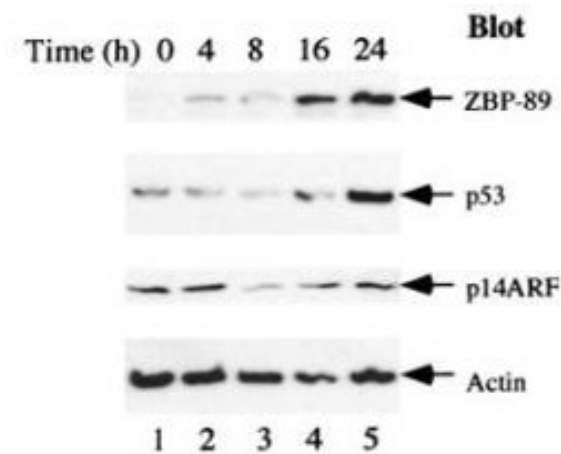
Physical State:	Liquid (sterile filtered)
Concentration:	90 mg/mL by Refractometry
Buffer:	None
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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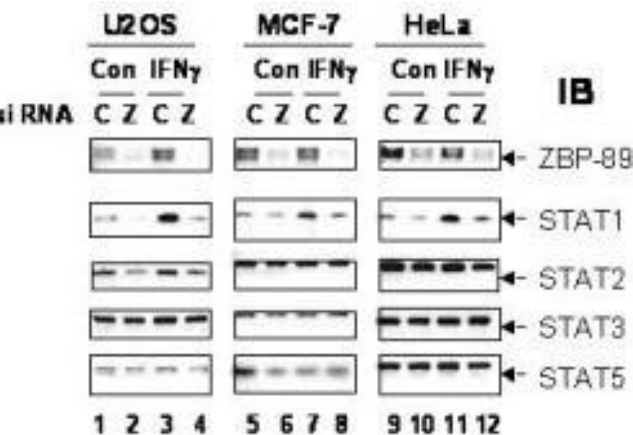
Storage Condition:	Store ZBP89 Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

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 Rockland's Rabbit-anti-ZBP-89 antibody. For detection use Rockland's HRP conjugated Gt-anti-Rabbit IgG MX10 (611-103-122). See Bai and Merchant (2001) for additional details.



Western Blot

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

ZBP-89

(Zinc finger DNA Binding Protein, 89kD)



Regulates gene expression via DNA binding (GC-rich)

Gastrin
 p21^{ras}
 STAT1
 ODC (ornithine decarboxylase)

Engaged in protein-protein interaction

p53: cell growth arrest
 GADD34: p21^{ras}
 p300: p21^{ras}

SDS-PAGE

Diagram

ZBP-89 interacts with p53 in vivo and in vitro. ZBP-89 interacts with amino acids 160 to 393 of p53. p53 contains an activation domain (AD), DNA binding domain (DNA BD), tetramerization domain (TD), and regulatory domain (RD). p53 binds to the zinc finger DNA binding domain of ZBP-89 (amino acids 154 to 300). ZBP-89 contains an acidic domain (AD), zinc finger DNA binding domain, basic domain (BD), and C-terminal domain (C-TER). See Bai and Merchant (2001) for additional details.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.