

Product datasheet for R1493

ZNF148 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	This polyclonal antibody reacts human ZBP-89 in a variety of immunological assays including western blot and ELISA. This antibody is likely functional in immunohistochemistry and immunoprecipitation. <u>Recommended dilutions</u> Immunoblotting: 1:5,000. 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. ELISA: 1:10,000 - 1:30,000.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Purified full length ZBP-89 recombinant protein expressed in E.coli
Specificity:	This polyclonal antibody is specific for ZBP-89.
Formulation:	State: Serum State: Liquid (sterile filtered) Ig fraction containing 0.09% (w/v) Sodium Azide
Concentration:	lot specific
Purification:	Delipidation and defibrination
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted (in aliquots) at -20°C. Avoid cycles of freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	zinc finger protein 148
Database Link:	<u>Entrez Gene 7707 Human Q9UQR1</u>



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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 fulllength 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:

ZBP89

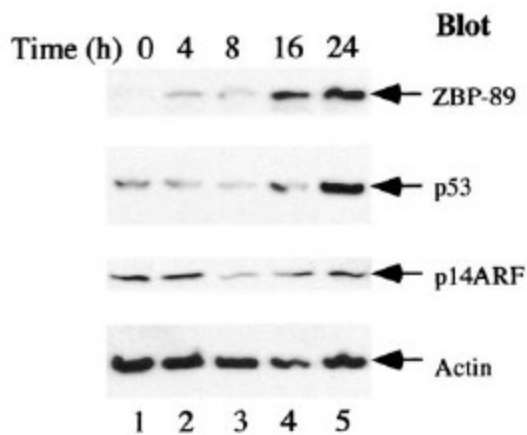
Product images:


Figure 1. 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 immunoblots 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. See Bai and Merchant (2001) for additional details.

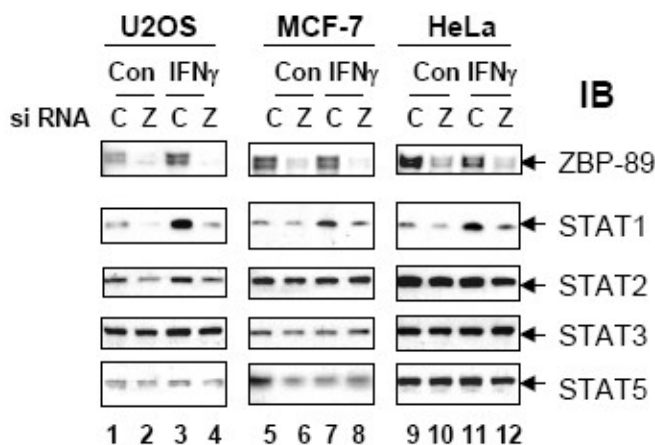


Figure 2. Anti-ZBP-89 antibody used to confirm siRNA knockdown of ZBP-89. See Bai and Merchant (2003) for additional details.