

## ARG62967 anti-CtBP1 antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes CtBP1
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, IP, WB
Specificity	The polyclonal antibody reacts with CtBP1, a 49 kDa transcriptional corepressor, that plays a critical role in regulating gene expression.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CtBP1
Species	Human
Immunogen	Bacterially expressed full-length human CtBP1
Conjugation	Un-conjugated
Alternate Names	EC 1.1.1.-; CtBP1; BARS; C-terminal-binding protein 1

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1 µg/ml
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	WB: Under reducing condition. ICC/IF: Staining technique: Acetone / methanol fixation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purified from rabbit serum by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note**

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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**Database links**

[GeneID: 13016 Mouse](#)

[GeneID: 1487 Human](#)

[Swiss-port # O88712 Mouse](#)

[Swiss-port # Q13363 Human](#)

**Gene Symbol**

CTBP1

**Gene Full Name**

C-terminal binding protein 1

**Background**

C-terminal binding protein 1 / brefeldin A (BFA)-dependent ADP-ribosylation substrate (CtBP1/BARS) is a highly conserved transcriptional corepressor, that plays a critical role in regulating gene expression patterns throughout development and in oncogenesis. CtBP regulates target gene transcription, in part, via recruitment of histone deacetylases involved in gene silencing and may act to coordinate histone modifications that regulate gene expression.

**Function**

Corepressor targeting diverse transcription regulators such as GLIS2 or BCL6. Has dehydrogenase activity. Involved in controlling the equilibrium between tubular and stacked structures in the Golgi complex. Functions in brown adipose tissue (BAT) differentiation. [UniProt]

**Research Area**

Cancer antibody; Cell Biology and Cellular Response antibody; Gene Regulation antibody; Microbiology and Infectious Disease antibody

**Calculated Mw**

48 kDa

**PTM**

The level of phosphorylation appears to be regulated during the cell cycle. Phosphorylation by HIPK2 on Ser-422 induces proteasomal degradation.  
ADP-ribosylated; when cells are exposed to brefeldin A.  
Sumoylation on Lys-428 is promoted by the E3 SUMO-protein ligase CBX4.