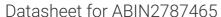
# antibodies -online.com







# anti-CEBPA antibody (Middle Region)

**Images** 

**Publications** 



Overview	

Quantity:	100 μL
Target:	CEBPA
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Zebrafish (Danio rerio), Guinea Pig, Dog, Rabbit, Horse, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

#### **Product Details**

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human CEBPA
Sequence:	RRERNNIAVR KSRDKAKQRN VETQQKVLEL TSDNDRLRKR VEQLSRELDT
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 79%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 79%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against CEBPA. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

# **Target Details**

Target:	CEBPA
Alternative Name:	CEBPA (CEBPA Products)

Background:

CEBPA is a bZIP transcription factor which can bind as a homodimer to certain promoters and enhancers. It can form heterodimers with the related proteins CEBP-beta and CEBP-gamma. The protein has been shown to bind to the promoter and modulate the expression of the gene encoding leptin, a protein that plays an important role in body weight homeostasis. Also, CEBPA can interact with CDK2 and CDK4, thereby inhibiting these kinases and causing growth arrest in cultured cells. The protein encoded by this intronless gene is a bZIP transcription factor which can bind as a homodimer to certain promoters and enhancers. It can also form heterodimers with the related proteins CEBP-beta and CEBP-gamma. The encoded protein has been shown to bind to the promoter and modulate the expression of the gene encoding leptin, a protein that plays an important role in body weight homeostasis. Also, the encoded protein can interact with CDK2 and CDK4, thereby inhibiting these kinases and causing growth arrest in cultured cells. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

PRIMARYREFSEQ\_SPAN PRIMARY\_IDENTIFIER PRIMARY\_SPAN COMP 1-2385 U34070.1 592-2976

Alias Symbols: C/EBP-alpha, CEBP

Protein Interaction Partner: CEBPB, ZBTB16, RARA, HDAC1, BHLHE41, UBC, CEBPE, BATF2, BATF3, YY1AP1, ATF5, BATF, FOSL1, FOS, DBP, CEBPG, CEBPA, ATF4, ATF3, UBE3A, SKP2, RASGRF1, C1QBP, CDKN1A, SRA1, CDK4, PIAS1, Fbxw7, GRIN3A, RAB34, NAA16, POLR1E, MRT04, AK5, MACF1, KAT5, AKAP9, SMC1

Protein Size: 358

Molecular Weight:	37 kDa
Gene ID:	1050
NCBI Accession:	NM_004364, NP_004355
UniProt:	P49715
Pathways:	Brown Fat Cell Differentiation, Positive Regulation of fat Cell Differentiation

#### **Application Details**

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 358 AA
Restrictions:	For Research Use only

#### Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Publications	

#### Publications

Product cited in:

Miglino, Roth, Tamm, Borger: "House dust mite extract downregulates C/EBP? in asthmatic bronchial smooth muscle cells." in: **The European respiratory journal**, Vol. 38, Issue 1, pp. 50-8, (2011) (PubMed).

Borger, Miglino, Baraket, Black, Tamm, Roth: "Impaired translation of CCAAT/enhancer binding protein alpha mRNA in bronchial smooth muscle cells of asthmatic patients." in: **The Journal of allergy and clinical immunology**, Vol. 123, Issue 3, pp. 639-45, (2009) (PubMed).

90 kDa\_\_ 65 kDa\_\_ 40 kDa\_\_ 31 kDa\_\_ 22 kDa\_\_

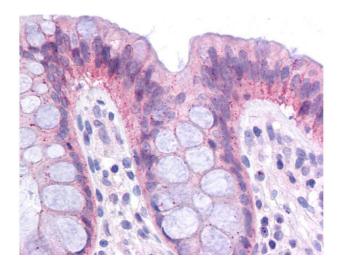
# **Western Blotting**

Image 1. WB Suggested Anti-CEBPA Antibody Titration:

0.2-1 ug/ml

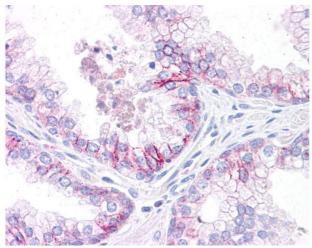
**ELISA Titer:** 1:312500

Positive Control: 721\_B cell lysate



# **Immunohistochemistry**

Image 2.



# Immunohistochemistry

Image 3.