

AE-binding protein 1/Aebp1 Protein, Mouse (His-SUMO)

Cat. No.:	HY-P71566
Synonyms:	Aebp1; Aclp; Adipocyte enhancer-binding protein 1; AE-binding protein 1; Aortic carboxypeptidase-like protein
Species:	Mouse
Source:	E. coli
Accession:	Q640N1 (26Q-370P)
Gene ID:	11568
Molecular Weight:	Approximately 70 kDa. The reducing (R) protein migrates as 70 kDa in SDS-PAGE maybe due to relative charge.

PROPERTIES

AA Sequence	<p>Q T V L T D D E I E E F L E G F L S E L E T Q S P P R E D D V E V Q P L P E P T</p> <p>Q R P R K S K A G G K Q R A D V E V P P E K N K D K E K K G K K D K G P K A T K</p> <p>P L E G S T R P T K K P K E K P P K A T K K P K E K P P K A T K K P K E K P P K</p> <p>A T K K P K E K P P K A T K R P S A G K K F S T V A P L E T L D R L L P S P S N</p> <p>P S A Q E L P Q K R D T P F P N A W Q G Q G E E T Q V E A K Q P R P E P E E E T</p> <p>E M P T L D Y N D Q I E K E D Y E D F E Y I R R Q K Q P R P T P S R R R L W P E</p> <p>R P E E K T E E P E E R K E V E P P L K P L L P P D Y G D S Y V I P N Y D D L D</p> <p>Y Y F P H P P P Q K P D V G Q E V D E E K E E M K K P K K E G S S P K E D T E D</p> <p>K W T V E K N K D H K G P R K G E E L E E E W A P</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	AEBP1 acts as a transcriptional repressor that impedes macrophage cholesterol efflux, promoting foam cell formation, via
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PPARgamma1 and LXRAalpha down-regulation^[1].

Silencing AEBP1 markedly suppresses the proliferation, migration, invasion, metastasis and epithelial-mesenchymal transition of GC cells. Moreover, we demonstrate that knockdown of AEBP1 in GC cells leads to inhibition of the NF-κB pathway by hampering the degradation of IκBα^[2].

REFERENCES

[1]. Amin Majdalawieh, et al. Adipocyte enhancer-binding protein 1 is a potential novel atherogenic factor involved in macrophage cholesterol homeostasis and inflammation. *Proc Natl Acad Sci U S A*. 2006 Feb 14;103(7):2346-51.

[2]. Jun-Yan Liu, et al. AEBP1 promotes epithelial-mesenchymal transition of gastric cancer cells by activating the NF-κB pathway and predicts poor outcome of the patients. *Sci Rep*. 2018 Aug 10;8(1):11955.

Caution: Product has not been fully validated for medical applications. For research use only.

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