

CITED1 Rabbit pAb

Catalog # AP97460

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q99966
Other Accession	Q99966
Reactivity	Rat
Predicted	Pig, Human, Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19896
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CITED1/ABCC1
Epitope Specificity	101-193/193
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the CITED family.
SUBUNIT	Interacts (via C-terminus) with CREBBP. Interacts with EGR2. Homodimer. Binds to RBM14. Interacts (via N-terminus) with HSPA8; the interaction suppresses the association of CITED1 with p300/CBP and SMAD-mediated transcription transactivation. Interacts (via C-terminus) with TOX3 (via HGM box); the interaction increases estrogen-response element (ERE)-dependent transcription and protection against cell death. Interacts with ESR1; the interaction occurs in a estrogen-dependent manner. Interacts (unphosphorylated form preferentially and via C-terminus) with EP300.
Post-translational modifications	Phosphorylated. Phosphorylation changes in a cell cycle-dependent manner and reduces its transcriptional coactivator activity.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the CREB-binding protein/p300-interacting transactivator with Asp/Glu-rich C-terminal domain (CITED) family of proteins. The encoded protein, also known as melanocyte-specific gene 1, may function as a transcriptional coactivator and may play a role in pigmentation of melanocytes. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2009]

Additional Information

Gene ID	4435
Other Names	MSG1; CITE1_HUMAN; CITED1; Melanocyte-specific protein 1; Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 1; Cbp/p300-interacting transactivator, with Glu/Asp rich carboxy-terminal domain, 1

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CITED1
Synonyms	MSG1
Function	Transcriptional coactivator of the p300/CBP-mediated transcription complex. Enhances SMAD-mediated transcription by strengthening the functional link between the DNA-binding SMAD transcription factors and the p300/CBP transcription coactivator complex. Stimulates estrogen-dependent transactivation activity mediated by estrogen receptors signaling; stabilizes the interaction of estrogen receptor ESR1 and histone acetyltransferase EP300. Positively regulates TGF-beta signaling through its association with the SMAD/p300/CBP-mediated transcriptional coactivator complex. Induces transcription from estrogen-responsive promoters and protection against cell death. Potentiates EGR2-mediated transcriptional activation activity from the ERBB2 promoter. Acts as an inhibitor of osteoblastic mineralization through a cAMP-dependent parathyroid hormone receptor signaling. May play a role in pigmentation of melanocytes. Associates with chromatin to the estrogen-responsive TGF-alpha promoter region in a estrogen-dependent manner.
Cellular Location	Nucleus. Cytoplasm. Note=Shuttles between the nucleus and the cytoplasm by a nuclear export signal and (NES) in a CRM1-dependent manner
Tissue Location	Expressed only in melanocytes and testis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.