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EBP Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19661b

Product Information

Application	WB, E
Primary Accession	Q15125
Other Accession	NP_006570.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB41564
Calculated MW	26353
Antigen Region	201-230

Additional Information

Gene ID	10682
Other Names	3-beta-hydroxysteroid-Delta(8), Delta(7)-isomerase, Cholestenol Delta-isomerase, Delta(8)-Delta(7) sterol isomerase, D8-D7 sterol isomerase, Emopamil-binding protein, EBP
Target/Specificity	This EBP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 201-230 amino acids from the C-terminal region of human EBP.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	EBP Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EBP (HGNC:3133)
Function	Isomerase that catalyzes the conversion of Delta(8)-sterols to their corresponding Delta(7)-isomers a catalytic step in the postlanosterol

biosynthesis of cholesterol.

Cellular Location Endoplasmic reticulum membrane; Multi-pass membrane protein. Nucleus envelope Cytoplasmic vesicle. Note=During interphase, detected on the endoplasmic reticulum and the nuclear envelope. During mitosis, detected on cytoplasmic vesicles

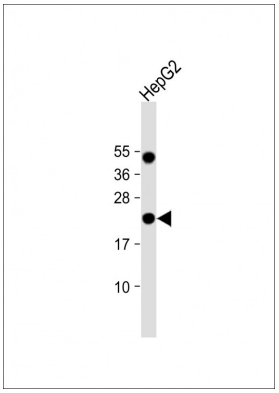
Background

The protein encoded by this gene is an integral membrane protein of the endoplasmic reticulum. It is a high affinity binding protein for the antiischemic phenylalkylamine Ca2+ antagonist [3H]emopamil and the photoaffinity label [3H]azidopamil. It is similar to sigma receptors and may be a member of a superfamily of high affinity drug-binding proteins in the endoplasmic reticulum of different tissues. This protein shares structural features with bacterial and eukaryontic drug transporting proteins. It has four putative transmembrane segments and contains two conserved glutamate residues which may be involved in the transport of cationic amphiphilics. Another prominent feature of this protein is its high content of aromatic amino acid residues (>23%) in its transmembrane segments. These aromatic amino acid residues have been suggested to be involved in the drug transport by the P-glycoprotein. Mutations in this gene cause Chondrodysplasia punctata 2 (CDPX2; also known as Conradi-Hunermann syndrome).

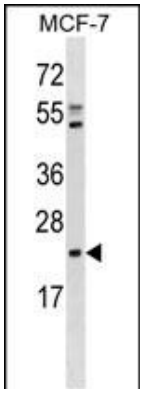
References

Lu, Y., et al. J. Lipid Res. 49(12):2582-2589(2008)
Ausavarat, S., et al. Eur J Dermatol 18(4):391-393(2008)
Steijlen, P.M., et al. Br. J. Dermatol. 157(6):1225-1229(2007)
Guggenberger, C., et al. J. Steroid Biochem. Mol. Biol. 104 (3-5), 105-109 (2007) :
Rakheja, D., et al. Pediatr. Dev. Pathol. 10(2):142-148(2007)

Images



Anti-EBP Antibody (C-term) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



EBP Antibody (C-term) (Cat. #AP19661b) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the EBP antibody detected the EBP protein (arrow).