

For Research Use Only

CEBPB Monoclonal antibody

Catalog Number: 66649-1-Ig **3 Publications**



Basic Information

Catalog Number: 66649-1-Ig	GenBank Accession Number: BC007538	Purification Method: Protein G purification
Size: 150ul , Concentration: 1400 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1051	CloneNo.: 2B6E10
Source: Mouse	Full Name: CCAAT/enhancer binding protein (C/EBP), beta	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:150-1:600
Isotype: IgG1	Calculated MW: 345 aa, 36 kDa	
Immunogen Catalog Number: AG20073	Observed MW: 40-45 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : HeLa cells, L02 cells, HepG2 cells IHC : human lung cancer tissue,
Cited Applications: WB	
Species Specificity: Human, rat, mouse	
Cited Species: human, mouse, monkey	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

CCAAT/enhancer-binding protein beta (CEBPB), also known as LAP, is a important transcriptional activator in the regulation of genes involved in immune and inflammatory responses. It specifically binds to an IL-1 response element in the IL-6 gene. NF-IL6 also binds to regulatory regions of several acute-phase and cytokines genes. It probably plays a role in the regulation of acute-phase reaction, inflammation and hemopoiesis. The consensus recognition site is 5'-T[TG]NNGNAA[TG]-3'. Functions in brown adipose tissue (BAT) differentiation. By similarity. Regulates the transcriptional induction of peroxisome proliferator-activated receptor gamma (PPARG). CEBPb mRNAs possess alternative translation-initiation codons, which result in the formation of truncated forms of the protein. All major isoforms of CEBPB (38, 34, and 20 kDa) are expressed, with the 34 and 20kDa isoforms being more abundant in preovulatory follicles and further increased in corpora lutea (CL)(PMID:15647458). The truncated protein of 18 kDa (relative to the 30 kDa full-length protein that is known as LAP, or p30 CEBPb or liver-activating protein) lacks a transactivation domain, also known as LIP (p19 CEBPb or liver-inhibitory protein), can form homodimers or heterodimerize with other family members and, as it lacks the transactivation domain, can attenuate the transcriptional activation properties of the other isoforms.(10051447). Three variants of CEBPBs have been detected in many cell types: a 46 kDa full-length liver-enriched transcription-activating protein (LAP1), a 42 kDa LAP2 and a 20-kDa liver-enriched transcription-inhibitory protein (LIP). These variants are the result of an alternative translation initiation due to a leaky ribosomal scanning mechanism.(PMID:18820298).

Notable Publications

Author	Pubmed ID	Journal	Application
Weiyun Zhang	35628429	Int J Mol Sci	WB
Yu-Kun Yang	33648583	Stem Cell Res Ther	WB
Zhongqiu Zhou	37944732	Int J Biol Macromol	WB

Storage

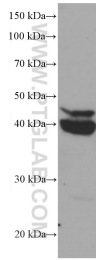
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

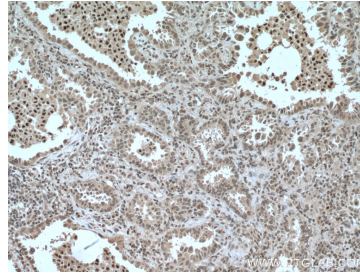
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Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 66649-1-Ig (CEBPB antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66649-1-Ig (CEBPB antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).