For Research Use Only

CEBPB Monoclonal antibody, PBS Only

Catalog Number:66649-1-PBS

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Basic Information

Catalog Number:
66649-1-PBS

Size:
1 mg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG20073

GenBank Accession Number:
BC007538

GeneID (NCBI):
1051

UNIPROT ID:
P17676

Full Name:
CCAAT/enhancer binding protein (C/EBP), beta

Calculated MW:
345 aa, 36 kDa

Observed MW:
40-45 kDa

Purification Method:
Protein G purification

CloneNo.:
2B6E10

Applications

Tested Applications:
WB,Indirect ELISA,IHC

Species Specificity:
Human, rat, mouse

Background Information

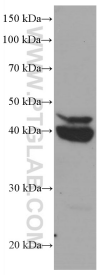
CCAAT/enhancer-binding protein beta (CEBPB), also known as LAP, is a important transcriptional activator in the regulation of genes involved in immune and inflammatory responses. It specifically binds to an IL-1 response element in the IL-6 gene. NF-IL6 also binds to regulatory regions of several acute-phase 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).

Storage

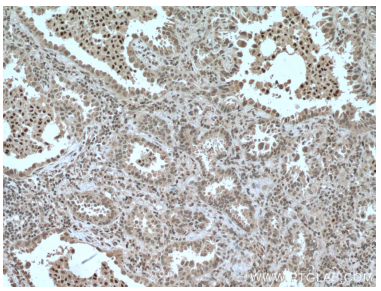
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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. This data was developed using the same antibody clone with 66649-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66649-1-PBS in a different storage buffer formulation.