



Rabbit Anti-CAF1p55/VPRBP antibody

SL9393R

Product Name:	CAF1p55/VPRBP
Chinese Name:	染色质组装因子1P55抗体
Alias:	Caf 1; CAF-1; CAF-1 P55 subunit; CAF1 p55 subunit; p55/DCAF1; CAF1A; CAF1P55; chaf1b; Chromatin assembly factor 1 p55 subunit; Chromatin assembly factor 1 p60 subunit; chromatin assembly factor 1 subunit; Chromatin assembly factor I; dCAF-1; dCAF1; Human chromatin assembly factor-I p55 subunit; Nucleosome remodeling factor 55 kDa subunit; NURF 55; NURF-55; p55; Probable histone binding protein Caf1; VPRBP HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/TestIF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	169kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human p55/DCAF1:221-320/1507
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	P55 is an extensively palmitoylated erythrocyte membrane protein, and a member of the MAGUK family. P55 also resists salt extraction, resulting in a high affinity for the

plasma membrane. P55 contains a PDZ/DHR domain, a conserved SH-3 domain that appears to suppress tyrosine kinase activity of various oncoproteins, a 39-amino acid motif that binds to cytoskeletal protein 4.1R, and a guanylate kinase-like domain. Interaction with glycoporphin C (GPC) and 4.1R suggests that p55 may play a role in the dynamic regulation in the erythrocyte membrane. In addition, p55 gene expression in vivo may be associated with a CpG island. P55 is constitutively expressed in K562 erythroleukemia cells during erythropoiesis and undergoes a 2-fold amplification after induction.

Function:

Component of the CUL4A-RBX1-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex, VprBP/DCAF1 may function as the substrate recognition module within this complex. For example, VprBP/DCAF1 targets NF2 to the E3 ubiquitin-ligase complex for ubiquitination and subsequent proteasome-dependent degradation. In case of infection by HIV-1 virus, it is recruited by HIV-1 Vpr in order to hijack the CUL4A-RBX1-DDB1 function leading to arrest the cell cycle in G2 phase, and also to protect the viral protein from proteasomal degradation by another E3 ubiquitin ligase. In case of infection by HIV-2 virus, it is recruited by HIV-2 Vpx in order to hijack the CUL4A-RBX1-DDB1 function leading to enhanced efficiency of macrophage infection and promotion of the replication of cognate primate lentiviruses in cells of monocyte/macrophage lineage. Associated with chromatin in a DDB1-independent and cell cycle-dependent manner, VprBP/DCAF1 is recruited to chromatin as DNA is being replicated and is released from chromatin before mitosis.

Subunit:

Component of the CUL4A-RBX1-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex that could interact with HIV-1 virus Vpr protein and HIV-2 virus Vpx protein. Interacts directly with DDB1. Also forms a ternary complex with DDA1 and DDB1. Interacts with NF2 (via FERM domain). Component of EDD/UBR5-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex. Associates with the E3 ligase complex containing DYRK2, EDD/UBR5, DDB1 and VPRBP proteins (EDVP complex). Interacts directly with DYRK2.

Subcellular Location:

Cytoplasm. Nucleus.

Tissue Specificity:

Ubiquitously expressed.

Similarity:

Belongs to the VPRBP/DCAF1 family.

Contains 1 LisH domain.

Contains 5 WD repeats.

SWISS:

Q9Y4B6

Gene ID:
9730

Database links:

[Entrez Gene: 9730](#) Human

[Entrez Gene: 321006](#) Mouse

[Entrez Gene: 315987](#) Rat

[SwissProt: Q9Y4B6](#) Human

[SwissProt: Q80TR8](#) Mouse

[Unigene: 716623](#) Human

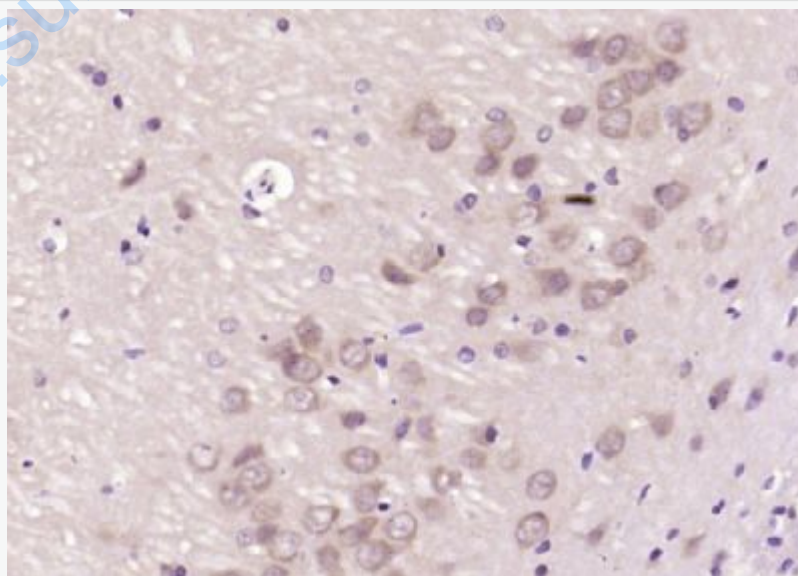
[Unigene: 440089](#) Mouse

[Unigene: 32961](#) Rat

Important Note:

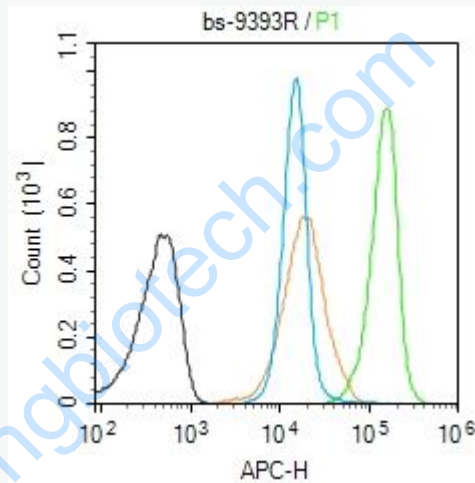
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Picture:



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling

in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CAF1p55/VPRBP) Polyclonal Antibody, Unconjugated (SL9393R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (Black line): Molt4 (Black).

Primary Antibody (green line): Rabbit Anti-CAF1p55_VPRBP antibody (SL9393R)

Dilution: 1µg /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647

Dilution: 1µg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein

interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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