For Research Use Only

## ELF1 Polyclonal antibody

Catalog Number:55029-1-AP



Basic Information	Catalog Number: 55029-1-AP	GenBank Accession Number: NM_172373	Purification Method: Antigen affinity purification	
	Size: 800 µ g/ml Source: Rabbit Isotype: IgG	GeneID (NCBI): 1997 UNIPROT ID: P32519	Recommended Dilutions: WB 1:200-1:1000	
				Full Name: E74-like factor 1 (ets domain transcription factor)
		Calculated MW: 67 kDa		
		Observed MW: 70-95 kDa		
		Applications	Tested Applications: WB, ELISA	Positive C
WB : A431 cells, Jurkat cells, K-562 cells, U- Species Specificity: human			L cells, Jurkat cells, K-562 cells, U-937 cells	
Background Information	ELF 1, also named as ETS-related transcription factor Elf-1, is originally cloned from a human T-cell cDNA library by hybridization with a probe encoding the DNA binding domain (ETS domain) of the human Ets-1 cDNA. Based on its preferential expression in embryonic lymphoid organs (thymus and spleen), a wide variety of epithelial cells and fetal liver as well as in adult haematopoietic tissues, including thymus, spleen and bone marrow, Elf-1 emerged as a potential key regulator of haematopoietic gene expression. Consistent with this notion, Elf-1 has been shown to be a direct upstream regulator of genes important for haematopoiesis such as Scl, Fli-1, Lyl-1, Runx1 and Lmo2. Elf-1 has also been shown to be important for blood vessel development, a process that is closely linked to early haematopoiesis during embryonic development. Elf-1 has been reported to take part in the transcriptional control of major regulators of blood vessel development such as Tie1, Tie2, angiopoietin-2, the vascular endothelial growth factor receptor 1 (VEGFR1), the endothelial nitric-oxide synthase (eNOS) and endoglin. Functional activity of Ets proteins is modulated at multiple levels. It is known that ELF-1 appears in the cytoplasm as a 80 KDa protein that is O -glycosylated and phosphorylated in order to be translocated into the nucleus where it can be detected as a 98 KDa protein. After dephosphorylation, the protein is degraded through the proteasome pathway. The inactive form of Elf-1 is an 80-kDa protein that lacks DNA-binding activity and is confined to the cytoplasm of the cell. Phosphorylation and 0-linked glycosylation increase the molecular weight of Elf-1 to 98 kDa, the active form; 98 kDa Elf-1 binds to the promoter of the gene that codes for CD3 $\zeta$ inducing its transcription.			
Storage	Storage: Store at -20°C. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage			

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



A431 cells were subjected to SDS PAGE followed by western blot with 55029-1-AP (ELF1 antibody) at dilution of 1:100 incubated at room temperature for 1.5 hours.