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GMEB2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55164

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9UKD1
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56421
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GMEB2
Epitope Specificity	101-200/530
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm. May be also cytoplasmic.
SIMILARITY	Contains 1 SAND domain.
SUBUNIT	Homodimer, and heterodimer of GMEB1 and GMEB2. GMEB1 and GMEB2 form the parvovirus initiator complex (PIF). Interacts with the glucocorticoid receptor (NR3C1). May interact with CREB-binding protein (CBP).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GMEB-2 is a DNA-binding protein that plays a crucial role modulating transcription upon activation by steroid hormones. GMEB-2 is ubiquitously expressed with preferential expression in developmentally important tissues, such as testis, bone marrow, placenta and fetal tissues. It localizes to the nucleus and cytoplasm and contains a SAND domain near its N-terminus and a C-terminal coiled coil structure. GMEB-2 functions as a homodimer or as a heterodimer with GMEB-1. The formed complex specifically binds to glucocorticoid modulatory elements (GME) in the promoter region of target genes and recruits the histone acetylase CREB binding protein (CBP) during glucocorticoid signaling. This acts to increase sensitivity to low concentrations of glucocorticoids. In addition, GMEB-2 functions as an auxiliary factor required for parvovirus replication.

Additional Information

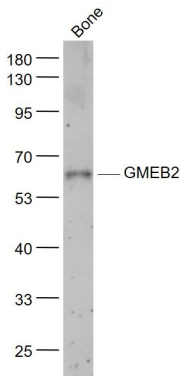
Gene ID	26205
Other Names	Glucocorticoid modulatory element-binding protein 2, GMEB-2, DNA-binding protein p79PIF, Parvovirus initiation factor p79, PIF p79, GMEB2, KIAA1269
Target/Specificity	Expressed in peripheral blood lymphocytes and fetal liver. Expressed preferentially in reproductive and/or developmentally important cells, such as

	testis, placenta, bone marrow and fetal tissues.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	GMEB2
Synonyms	KIAA1269
Function	Trans-acting factor that binds to glucocorticoid modulatory elements (GME) present in the TAT (tyrosine aminotransferase) promoter and increases sensitivity to low concentrations of glucocorticoids. Also binds to the transferrin receptor promoter. Essential auxiliary factor for the replication of parvoviruses.
Cellular Location	Nucleus. Cytoplasm. Note=May be also cytoplasmic.
Tissue Location	Expressed in peripheral blood lymphocytes and fetal liver. Expressed preferentially in reproductive and/or developmentally important cells, such as testis, placenta, bone marrow and fetal tissues

Images



Sample:
Bone (Mouse) Lysate at 40 ug
Primary: Anti- GMEB2 (AP55164) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 56 kD
Observed band size: 56 kD