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Flightless 1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58781

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q13045
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	144751
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Flightless 1
Epitope Specificity	343-452/452
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
SIMILARITY	Belongs to the ETS family. Contains 1 ETS DNA-binding domain. Contains 1 PNT (pointed) domain.
SUBUNIT	Can form homodimers or heterodimers with ETV6/TEL1.
DISEASE	Defects in FLI1 are a cause of Ewing sarcoma (ES) [MIM:612219]. A highly malignant, metastatic, primitive small round cell tumor of bone and soft tissue that affects children and adolescents. It belongs to the Ewing sarcoma family of tumors, a group of morphologically heterogeneous neoplasms that share the same cytogenetic features. They are considered neural tumors derived from cells of the neural crest. Ewing sarcoma represents the less differentiated form of the tumors. Note=A chromosomal aberration involving FLI1 is found in patients with Erwing sarcoma. Translocation t(11;22)(q24;q12) with EWSR1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein with a gelsolin-like actin binding domain and an N-terminal leucine-rich repeat-protein protein interaction domain. The protein is similar to a Drosophila protein involved in early embryogenesis and the structural organization of indirect flight muscle. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Mutations in this gene leads to abnormal muscle function, arrested development and embryonic lethality. The protein sequence shows that this might be a regulator of cytoskeleton and may have a role during cell division.

Additional Information

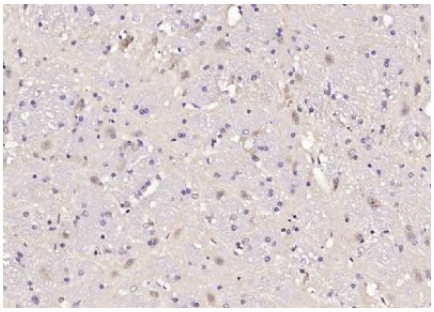
Gene ID	2314
Other Names	Protein flightless-1 homolog, FLII, FLIL

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=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

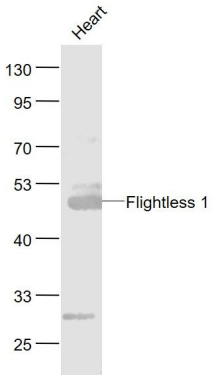
Name	FLII
Synonyms	FLIL
Function	Is a regulator of actin polymerization, required for proper myofibril organization and regulation of the length of sarcomeric thin filaments (By similarity). It also plays a role in the assembly of cardiomyocyte cell adhesion complexes (By similarity). Regulates cytoskeletal rearrangements involved in cytokinesis and cell migration, by inhibiting Rac1-dependent paxillin phosphorylation (By similarity). May play a role as coactivator in transcriptional activation by hormone-activated nuclear receptors (NR) and acts in cooperation with NCOA2 and CARM1 (PubMed:14966289). Involved in estrogen hormone signaling.
Cellular Location	Nucleus {ECO:0000250|UniProtKB:Q9JJ28}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q9JJ28}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250|UniProtKB:Q9JJ28}. Cell projection, podosome {ECO:0000250|UniProtKB:Q9JJ28}. Cell junction, focal adhesion {ECO:0000250|UniProtKB:Q9JJ28}. Note=Colocalizes to actin-rich structures in blastocysts and, together with HRAS, RHOA and CDC42, in migrating fibroblasts. Localizes to centrosomes (By similarity) Localized to the core of macrophage podosomes (By similarity) {ECO:0000250|UniProtKB:Q9JJ28}
Tissue Location	Strongest expression in skeletal muscle with high expression also in the heart and lung.

Images



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 (Flightless 1) Polyclonal Antibody, Unconjugated (AP58781) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Sample:
Heart (Mouse) Lysate at 40 ug
Primary: Anti- Flightless 1 (AP58781) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution



Predicted band size: 51 kD
Observed band size: 51 kD