SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-PAX7 antibody

Catalog Number: SL22741R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	PAX7
Immunogen:	KLH conjugated synthetic peptide derived from human PAX7: 141-240/520
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Chicken,Pig,Cow,Horse,Rabbit,Sheep)
Predicted MW.:	55kDa
Subcellular Location:	The nucleus
Background:	PAX7 is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The specific function of PAX7 is unknown but it is speculated to be involved in tumor suppression since fusion of this gene with a forkhead domain family member has been associated with alveolar rhabdomyosarcoma. Alternative splicing in this gene has produced two known products but the biological significance of the variants is unknown. **Function:** Probable transcription factor. May have a role in myogenesis. **Subunit:** Can bind to DNA as a heterodimer with PAX3. Interacts with DAXX. **Subcellular Location:** Nucleus. DISEASE: Defects in PAX7 are a cause of rhabdomyosarcoma type 2 (RMS2) [MIM:268220]. It is a form of rhabdomyosarcoma, a highly malignant tumor of striated muscle derived from primitive mesenchimal cells and exhibiting

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	differentiation along rhabdomyoblastic lines. Rhabdomyosarcoma is one of the most frequently occurring soft tissue sarcomas and the most common in children. It occurs in four forms: alveolar, pleomorphic, embryonal and botryoidal rhabdomyosarcomas. Note=A chromosomal aberration involving PAX7 is found in rhabdomyosarcoma. Translocation t(1;13)(p36;q14) with FOXO1. The resulting protein is a transcriptional activator. **Similarity:** Belongs to the paired homeobox family. Contains 1 homeobox DNA-binding domain. Contains 1 paired domain. **Database links:** **Entrez Gene:** 5081 Human **Entrez Gene:** 18509 Mouse **Entrez Gene:** 500574 Rat Omim: 167410 Human **SwissProt:** P23759 Human **SwissProt:** P47239 Mouse **Unigene:** 113253 Human **Unigene:** 218760 Mouse **Unigene:** 226327 Rat Homeodomain Proteins PAX-7 is a transcriptional repressor. It plays a key role in embryonic development and Tumour growth. Its mutations are associated with the pathogenesis of certain Tumours.

[VALIDATION IMAGES]

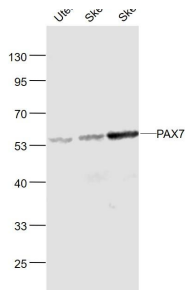


Figure 1. Sample: Uterus(Mouse) Lysate at 40 ug Skeletal muscle(Rat) Lysate at 40 ug Skeletal muscle(Mouse) Lysate at 40 ug Primary: Anti-PAX7 (SL22741R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kD Observed band size: 56 kD

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