PAX3 Polyclonal Antibody

E91675

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Catalog Number:	E91675
Amount:	100ul
Background:	Paired box (PAX) proteins are a family of transcription factors that play important and diverse roles in animal development (1). Nine PAX proteins (PAX1-9) have been described in humans and other mammals. They are defined by the presence of an amino-terminal "paired" domain, consisting of two helix-turn-helix motifs, with DNA binding activity (2). PAX proteins are classified into four structurally distinct subgroups (I-IV) based on the absence or presence of a carboxy-terminal homeodomain and a central octapeptide region. Subgroup I (PAX1 and 9) contains the octapeptide but lacks the homeodomain; subgroup II (PAX2, 5, and 8) contains the octapeptide and a truncated homeodomain; subgroup III (PAX3 and 7) contains the octapeptide and a complete homeodomain; and subgroup IV (PAX4 and 6) contains a complete homeodomain but lacks the octapeptide region (2). PAX proteins play critically important roles in development by regulating transcriptional networks responsible for embryonic patterning and organogenesis (3); a subset of PAX proteins also maintain functional importance during postnatal development (4). Research studies have implicated genetic mutations that result in aberrant expression of PAX genes in a number of cancer subtypes (1-3), with members of subgroups II and III identified as potential mediators of tumor progression (2).
Species:	Rabbit
Isotype:	IgG
Storage/Stability:	Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms:	PAX3; CDHS;HUP2;WS1;WS3;Paired box protein Pax-3;HuP2 ;
Immunogen:	Recombinant proteinof human PAX3
Purification:	Affinity purification
Reactivity:	H M R
Applications:	WB IHC
Molecular Weight:	50kDa
Swiss-Prot No. :	P23760
Gene ID:	5077
References:	1. Lang, D. et al. (2007) Biochem Pharmacol 73, 1-14. 2. Robson, E.J. et al. (2006) Nat Rev Cancer 6, 52-62. 3. Wang, Q. et al. (2008) J Cell Mol Med 12, 2281-94. 4. Blake, J.A. et al. (2008) Dev Dyn 237, 2791-803.

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WB 1:500 - 1:2000
IHC 1:50- 1:200

A431

130KD—
95KD—
72KD—
55KD— ◄ PAX3
43KD—
34KD—
26KD—
17KD—
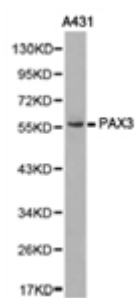
Western blot analysis of extracts of A431cell lines, using PAX3 antibody.

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