

Product datasheet for **TA327135**

PAX3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:50- 1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human PAX3
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	paired box 3
Database Link:	NP_852122 Entrez Gene 18505 Mouse Entrez Gene 114502 Rat Entrez Gene 5077 Human P23760



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Background:

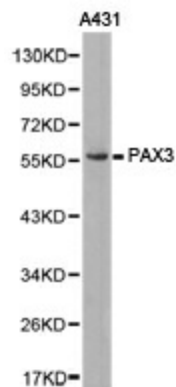
Paired box (PAX) proteins are a family of transcription factors that play important and diverse roles in animal development (1). Nine PAX proteins (PAX1-9) have been described in humans and other mammals. They are defined by the presence of an amino-terminal "paired" domain, consisting of two helix-turn-helix 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. PAX proteins play critically important roles in development by regulating transcriptional networks responsible for embryonic patterning and organogenesis; a subset of PAX proteins also maintain functional importance during postnatal development. Research studies have implicated genetic mutations that result in aberrant expression of PAX genes in a number of cancer subtypes, with members of subgroups II and III identified as potential mediators of tumor progression.

Synonyms:

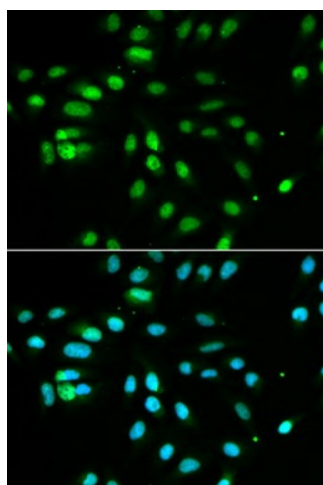
CDHS; HUP2; WS1; WS3

Protein Families:

Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors

Product images:

Western blot analysis of extracts of A431 cell lines, using PAX3 antibody.



Immunofluorescence analysis of MCF7 cell using PAX3 antibody. Blue: DAPI for nuclear staining.