

## Rabbit anti-Mouse, Human PAX7 Polyclonal Antibody | anti-PAX7 antibody

PAX7 Rabbit anti-Human Polyclonal (aa167-216) Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                             |
|-----------|--------|--------------|----------------------------------------------------------|
| AAA162487 | Rabbit | Mouse, Human | Western Blot, Immunohistochemistry, Immunohistochemistry |

### PRODUCT SYNONYMS

PAX7; Polyclonal Antibody; PAX7 Rabbit anti-Human Polyclonal (aa167-216) Antibody; PathPlus PAX7 Antibody (aa167-216); HUP1; Paired box 7; Paired box gene 7; Paired box homeotic gene 7; Paired box protein Pax-7; RMS2; Paired domain gene 7; PAX7 transcriptional factor; PAX7B; anti-PAX7 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                |
| Reactivity                                     | Mouse, Human                                                                                                                                                                                                                                                                                                                          |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                            |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                                   |
| Specificity                                    | Human PAX7                                                                                                                                                                                                                                                                                                                            |
| Purity/Purification                            | Immunoaffinity purified                                                                                                                                                                                                                                                                                                               |
| Form/Format                                    | PBS, 0.09% sodium azide, 2% sucrose                                                                                                                                                                                                                                                                                                   |
| Concentration                                  | 0.5mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                              |
| Applicable Applications for anti-PAX7 antibody | WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                             |
| Target                                         | Human PAX7                                                                                                                                                                                                                                                                                                                            |
| Immunogen                                      | Synthetic peptide located between aa167-216 of human PAX7 (P23759, NP_002575). Percent identity by BLAST analysis: Human, Chimpanzee, Gorilla, Orangutan, Gibbon, Monkey, Galago, Marmoset, Mouse, Rat, Elephant, Panda, Dog, Bovine, Bat, Rabbit, Guinea pig, Turkey, Zebra finch, Chicken (100%); Xenopus, Salmon, Zebrafish (92%). |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                                                                                          |
| Epitope                                        | aa167-216                                                                                                                                                                                                                                                                                                                             |
| Preparation and Storage                        | Short term: Store at 2-8 degree C. Long term: Aliquot and store at -20 degree C. Avoid freeze/thaw cycles.                                                                                                                                                                                                                            |

### IMAGES



#### IHC (Immunohistochemistry)

PAX7 Antibody-Anti-PAX7 antibody IHC of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml. This image was taken for the unconjugated form of this product. Other forms have not been tested.



#### IHC (Immunohistochemistry)

PAX7 Antibody-Anti-PAX7 antibody IHC of human skin. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml. This image was taken for the unconjugated form of this product. Other forms have not been tested.



#### IHC (Immunohistochemistry)

PAX7 Antibody-Anti-PAX7 antibody IHC of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml. This image was taken for the unconjugated form of this product. Other forms have not been tested.



#### WB (Western Blot)

PAX7 Antibody-Jurkat Cell Lysate. This image was taken for the unconjugated form of this product. Other forms have not been tested.

## ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-PAX7 antibody</b> | <p>PAX7 antibody is an unconjugated rabbit polyclonal antibody to PAX7 (aa167-216) from human. It is reactive with human and mouse. Validated for IHC and WB.</p> <p>PAX7 is a paired box transcription factor involved in fetal development and carcinogenesis. It is thought to be involved in tumor suppression, as PAX7 gene fusions with the forkhead transcription factor FOXO1 are associated with and prognostic for alveolar rhabdomyosarcoma. In the developing nervous system, PAX7 expression guides cell fate and morphology in the neuroepithelial layer and promotes the differentiation of neural progenitor cells into neurons. In immunohistochemistry, PAX7 has high nuclear positivity in skeletal muscle and in the tongue. In the brain and central nervous system, it has moderate expression in the cerebral cortex, midbrain, pons and medulla, and lower levels of positivity in the hippocampus, amygdala, basal ganglia, hypothalamus and spinal cord, and some positivity in the epididymis.</p> |
| <b>References</b>                                         | <p>J Clin Oncol. 2002 Jun 1;20(11):2672-9, PMID: 12039929; Bol Med Hosp Infant Mex. 2016 Nov-Dec;73(6):405-410, PMID: 29421285; J Comp Neurol. 2016 Apr 1;524(5):940-62, PMID: 26287727;</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                         |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">207029268</a>                                                                               |
| <b>NCBI GeneID</b>                      | <a href="#">5081</a>                                                                                    |
| <b>NCBI Accession #</b>                 | <a href="#">NP_002575.1</a>                                                                             |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_002584</a>                                                                               |
| <b>UniProt Accession #</b>              | <a href="#">P23759</a> ; <a href="#">Q0VA99</a> ; <a href="#">Q2PJS5</a> ; <a href="#">E9PFV9</a>       |
| <b>Molecular Weight</b>                 | 55,119 Da                                                                                               |
| <b>NCBI Official Full Name</b>          | Homo sapiens paired box 7 (PAX7), transcript variant 1, mRNA                                            |
| <b>NCBI Official Synonym Full Names</b> | paired box 7                                                                                            |
| <b>NCBI Official Symbol</b>             | PAX7                                                                                                    |
| <b>NCBI Official Synonym Symbols</b>    | HUP1; RMS2; PAX7B                                                                                       |
| <b>NCBI Protein Information</b>         | paired box protein Pax-7; PAX7 transcriptional factor; paired box homeotic gene 7; paired domain gene 7 |
| <b>UniProt Protein Name</b>             | Paired box protein Pax-7                                                                                |
| <b>UniProt Gene Name</b>                | <b>PAX7</b>                                                                                             |
| <b>UniProt Synonym Gene Names</b>       | HUP1                                                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pax7-antibody-western-blot-immunohistochemistry-immunohistochemistry-elisa/162487>