

# Anti-phospho Pax3 [Ser209]

**Catalogue number:** 156473

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Andrew Hollenbach

**Institute:** Louisiana University Health Sciences Center New Orleans (LSU)

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-phospho Pax3 [Ser209]

**Alternate name:**

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** Pax3 is a transcription factor important for myogenesis and when dysregulated can cause pediatric solid muscle tumor alveolar rhabdomyosarcoma (ARMS). ARMS is primarily characterized by the t(2;13)(p35;p14) chromosomal translocation, which results in the oncogenic fusion protein Pax3-FOXO1. Using these phospho-specific antibodies it was demonstrated that the pattern of Pax3 phosphorylation at serines 201, 205, and 209 changes throughout early myogenic differentiation and that this pattern is different for Pax3-FOXO1 in primary myoblasts and in several ARMS cell lines.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:**

**Reactivity:** Human ; Mouse

**Selectivity:**

**Host:** Rat

**Immunogen:** synthetic peptide: NH<sub>2</sub>-DID(pS)EPDLPLKRC-CO<sub>2</sub>

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:** IgG

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Phosphorylated Ser209 of Pax3

**Target alternate names:**

**Target background:** Pax3 is a transcription factor important for myogenesis and when dysregulated can cause pediatric solid muscle tumor alveolar rhabdomyosarcoma (ARMS). ARMS is primarily characterized by the t(2;13)(p35;p14) chromosomal translocation, which results in the oncogenic fusion protein Pax3-FOXO1. Using these phospho-specific antibodies it was demonstrated that the pattern of Pax3 phosphorylation at serines 201, 205, and 209 changes throughout early myogenic differentiation and that this pattern is different for Pax3-FOXO1 in primary myoblasts and in several ARMS cell lines.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:**

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:**

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Loupe et al. 2015. Oncogenesis. 4:e145. PMID: 25821947. ; Dietz et al. 2011. Int J Biochem Cell Biol. 43(6):936-45. PMID: 21440083. ; Miller et al. 2008. Protein Sci. 17(11):1979-86. PMID: 18708529.

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