

## Product datasheet for **AP06648PU-M**

### ALX3 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200. <b>Immunofluorescence:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 171-220 of Human ALX3.
Specificity:	This antibody detects endogenous levels of ALX3 protein. (region surrounding Arg203)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 36 kDa
Gene Name:	ALX homeobox 3
Database Link:	<a href="#">Entrez Gene 257 Human O95076</a>



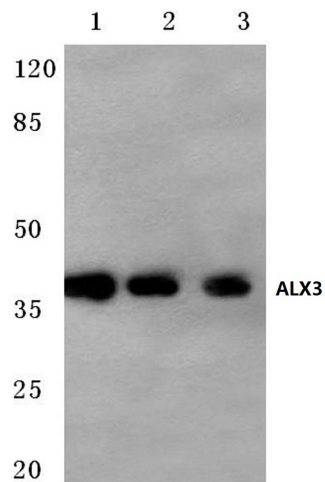
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**Background:**

Aristaless-related genes are a group of paired-related homeobox genes which play a role in regulating vertebrate embryogenesis. The homeodomain transcription factor aristaless-like 3 (ALX3) is expressed in mouse embryos from 8 days of gestation, predominantly in neural crest-derived mesenchyme and in lateral plate mesoderm. Expression analysis of human and mouse tissue reveals predominant ALX3 expression in brain tissue. The Alx3 gene maps to chromosome 1p23-p13 and encodes a 343 amino acid protein. Preferential methylation of Alx3 occurs in advanced-stage neuroblastoma and may repress ALX3 expression. Treatment with the methylation inhibitor 5-aza-2'-deoxycytidine restores ALX3 expression. Alx3 (-) mice lack a phenotype distinct from wild-type mice, however Alx3/Alx4 double mutants demonstrate severe craniofacial abnormalities not present in Alx4 single mutants. Specifically, Alx3/Alx4 double mutant newborn mice have cleft nasal regions in addition to malformation of other neural crest-derived skull structures.

**Synonyms:**

Homeobox protein aristaless-like 3

**Product images:**


Western blot (WB) analysis of ALX3 antibody at 1/500 dilution Lane 1: Hela whole cell lysate Lane 2: NIH-3T3 whole cell lysate Lane 3: Rat brain tissue lysate