10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ALX4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10386C

Specification

ALX4 Antibody (Center) - Product Information

Application	**WB, FC,E**
Primary Accession	Q9H161
Other Accession	O35137, Q4LAL6, NP_068745.2
Reactivity	**Human**
Predicted	**Bovine, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**44241**
Antigen Region	**249-275**

ALX4 Antibody (Center) - Additional Information

Gene ID 60529

Other Names
Homeobox protein aristaless-like 4, ALX4, KIAA1788

Target/Specificity
This ALX4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 249-275 amino acids from the Central region of human ALX4.

Dilution
WB~~1:1000
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ALX4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ALX4 Antibody (Center) - Protein Information

Name ALX4

Synonyms KIAA1788

Function Transcription factor involved in skull and limb development. Plays an essential role in craniofacial development, skin and hair follicle development.

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000255|PROSITE-ProRule:PRU00138, ECO:0000269|PubMed:19692347}

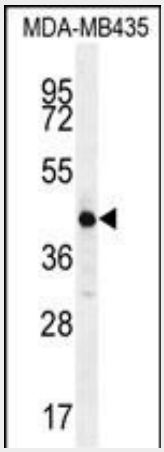
Tissue Location
Expression is likely to be restricted to bone. Found in parietal bone

ALX4 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

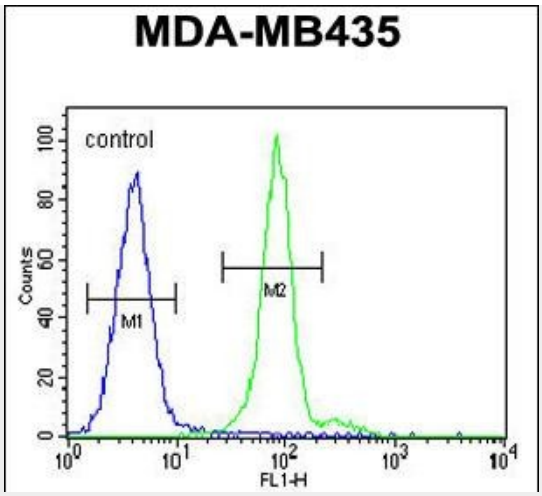
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ALX4 Antibody (Center) - Images



ALX4 Antibody (Center) (Cat. #AP10386c) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the ALX4 antibody detected the ALX4 protein (arrow).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



ALX4 Antibody (Center) (Cat. #AP10386c) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ALX4 Antibody (Center) - Background

This gene encodes a paired-like homeodomain transcription factor expressed in the mesenchyme of developing bones, limbs, hair, teeth, and mammary tissue. Mutations in this gene cause parietal foramina 2 (PFM2); an autosomal dominant disease characterized by deficient ossification of the parietal bones. Mutations in this gene also cause a form of frontonasal dysplasia with alopecia and hypogonadism; suggesting a role for this gene in craniofacial development, mesenchymal-epithelial communication, and hair follicle development. Deletion of a segment of chromosome 11 containing this gene, del(11)(p11p12), causes Potocki-Shaffer syndrome (PSS); a syndrome characterized by craniofacial anomalies, mental retardation, multiple exostoses, and genital abnormalities in males. In mouse, this gene has been shown to use dual translation initiation sites located 16 codons apart. [provided by RefSeq].

ALX4 Antibody (Center) - References

Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :
Tanzer, M., et al. PLoS ONE 5 (2), E9061 (2010) :
Kayserili, H., et al. Hum. Mol. Genet. 18(22):4357-4366(2009)
Chang, H., et al. J. Clin. Pathol. 62(10):908-914(2009)
Drenos, F., et al. Hum. Mol. Genet. 18(12):2305-2316(2009)