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Product datasheet for TA505145BM

ALX4 Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI1F2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1F2
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ALX4(NP_068745) produced in HEK293T cell.
Formulation:	PBS (pH 7.4) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	44.1 kDa
Gene Name:	ALX homeobox 4
Database Link:	NP_068745 Entrez Gene 11695 MouseEntrez Gene 296511 RatEntrez Gene 60529 Human Q9H161

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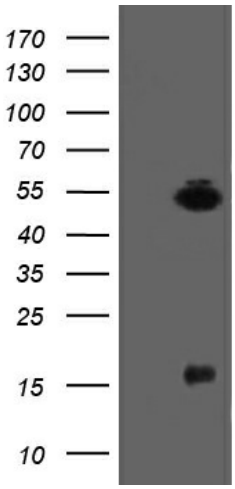
Background: This gene encodes a paired-like homeodomain transcription factor expressed in the mesenchyme of developing bones, limbs, hair, teeth, and mammary tissue. Mutations in this gene cause parietal foramina 2 (PFM2); an autosomal dominant disease characterized by deficient ossification of the parietal 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]

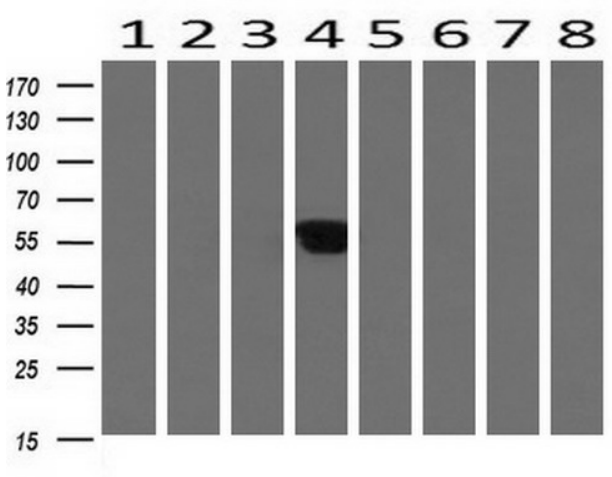
Synonyms: CRS5; FND2

Protein Families: Druggable Genome

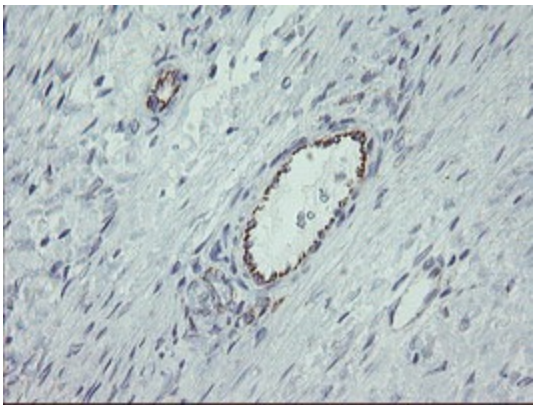
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ALX4 ([RC224459], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ALX4. Positive lysates [LY411892] (100ug) and [LC411892] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 8 Human tissue by using anti-ALX4 monoclonal antibody at 1:200 (1: Testis; 2: Uterus; 3: Breast; 4: Brain; 5: Liver; 6: Ovary; 7: Thyroid gland; 8: Colon).



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-ALX4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA505145])