Msx-2 Rabbit pAb

CatalogNo: YT2905

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse	• WB,IHC,IF,ELISA

MW	Isotype
• 28kD (Observed)	• IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:20000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from the Internal region of human Msx-2.
Specificity	Msx-2 Polyclonal Antibody detects endogenous levels of Msx-2 protein.

Target Information

Gene name MSX2

Protein Name Homeobox protein MSX-2

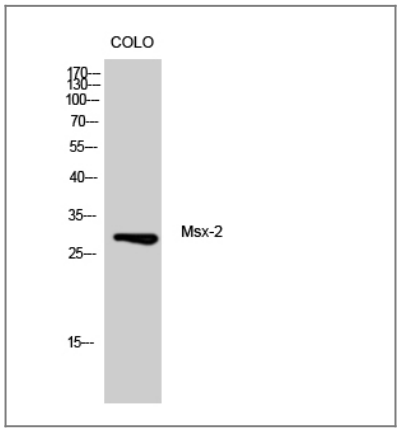
Organism	Gene ID	UniProt ID
Human	4488;	P35548;
Mouse	17702;	Q03358;

Cellular Localization Nucleus.

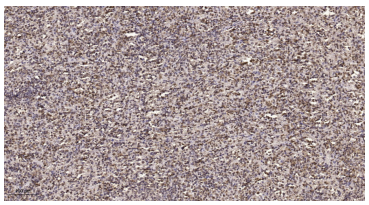
Tissue specificity Osteoblast,Pancreas,Tooth,

Function Disease:Defects in MSX2 are the cause of craniosynostosis type 2 (CRS2) [MIM:604757]; also known as craniosynostosis Boston-type (CSB). CRS2 is an autosomal dominat disorder characterized by the premature fusion of calvarial sutures. The craniosynostosis phenotype is either fronto-orbital recession, or frontal bossing, or turribrachycephaly, or cloverleaf skull. Associated features include severe headache, high incidence of visual problems (myopia or hyperopia), and short first metatarsals. Intelligence is normal.,Disease:Defects in MSX2 are the cause of parietal foramina 1 (PFM1) [MIM:168500]; also known as foramina parietalia permagna (FPP). PFM1 is an autosomal dominant disease characterized by oval defects of the parietal bones caused by deficient ossification around the parietal notch, which is normally obliterated during the fifth fetal month.,Disease:Defects in MSX2 are the cause of parietal foramina with cleidocranial dysplasia (PFMCCD) [MIM:168550]; also known as cleidocranial dysplasia with parietal foramina. PFMCCD combines skull defects in the form of enlarged parietal foramina and deficient ossification of the clavicles.,Function:Probable morphogenetic role. May play a role in limb-pattern formation. In osteoblasts, suppresses transcription driven by the osteocalcin FGF response element (OCFRE).,similarity:Belongs to the Msh homeobox family.,similarity:Contains 1 homeobox DNA-binding domain.,subunit:Interacts with MINT (By similarity). Interacts with G22P1 (Ku70) and XRCC5 (Ku80).,

Validation Data



Western Blot analysis of CoLo cells using Msx-2 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded human spleen. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).

Contact information

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Please scan the QR code to access additional product information:
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