PRODUCT INFORMATION

Product name: LMX1B antibody
Product type: Primary antibodies

Description: Rabbit polyclonal to LMX1B

Immunogen: 3 synthetic peptides (human) conjugated to KLH

Reacts with: Hu, Ms

Tested applications: ELISA, WB and IF

GENE INFORMATION

Gene Symbol: LMX1B

Gene Name: LIM homeobox transcription factor 1, beta

Ensembl ID: ENSG00000136944

Entrez GeneID: 4010

GenBank Accession number: U77457.1

Omim ID: 602575 Swiss-Prot: 060663

Molecular weight of LMX1B: 42.409kDa (Isoform long) and 41.594 (Isoform short)

Function: Essential for the specification of dorsal limb fate at both the zeugopodal and autopodal levels.

Expected subcellular localization: Nucleus.

Expected tissue specificity: Expressed in most tissues. Highest levels in testis, thyroid, duodenum, skeletal muscle, and pancreatic islets.

Involvement in disease: Defects in LMX1B are the cause of nail-patella syndrome (NPS) [MIM:161200]; also known as Onychoosteodysplasia. NPS is a disease that causes abnormal skeletal patterning and renal dysplasia.

Recommended dilution:

 ELISA: Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A titer of 1/40000 has been determined. Appropriate specificity controls were run.

WB: 1/5000.IF: 1/1000

Optimal dilutions/concentration should be determined by the end user.

Raised in: Rabbit

Clonality: Polyclonal

Isotype: IgG

Purity: Purified Antibody

Storage buffer: 0.5 X PBS, containing a final concentration of 50% Glycerol, 0.1% BSA and

 $0.01\%\ Thimerosal.$

Form: Liquid

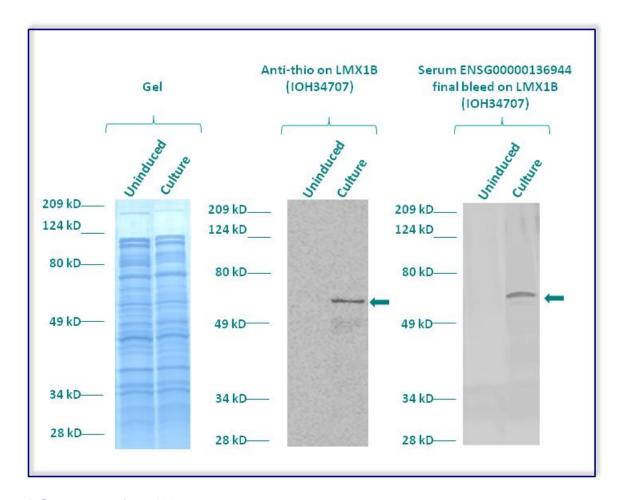
Storage instruction: Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

The purified antibody ENSG00000136944 has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

An anti-Thio (positive control) has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells) as a positive control.

Plasmid name: pBAD-DEST49.

Molecular weight of LMX1B: 56.4kDa (42.4kDa + another 14kDa for the tag).



Gel concentration: 10%

Blocking: in 5% non-fat milk-PBST solution

1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000136944 at 1:5000
- Dilute the anti-thio at 1:5000

60 minutes of incubation

2nd Antibody: The antibody is diluted in blocking buffer.

• Dilute the anti-Rabbit IgG HRP conjugated at 1/1000 60 minutes of incubation

IMMUNOFLUORESCENCE ANALYSIS

Immunofluorescence analysis of LIM homeobox transcription factor 1-beta (LMX1B) expression in 1 cell line (HELA). The purified Antibody ENSG00000136944 has been tested at 1/5000.

Red staining : cytoskeleton (microtubules/ α -tubuline)

Blue staining: nucleus (Hoechst)

Green staining: anti-LMX1B antibody (purified)

Expected subcellular location: Nucleus

Expected tissue specificity: Expressed in most tissues. Highest levels in testis, thyroid,

duodenum, skeletal muscle, and pancreatic islets

