

## Product datasheet for **AP20515PU-M**

### LMX1B Rabbit Polyclonal Antibody

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Applications:           | IHC, WB   |
| Recommended Dilution:   | <b>Western blot:</b> 1/500 - 1/1000.<br><b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.                                      |
| Reactivity:             | Human, Mouse  |
| Host:                   | Rabbit  |
| Clonality:              | Polyclonal  |
| Specificity:            | This antibody detects endogenous levels of LMX1B protein.<br>(region surrounding Asp159)  |
| Formulation:            | Phosphate buffered saline (PBS), pH 7.2.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction<br>Preservative: 15 mM sodium azide |
| Concentration:          | 1.0 mg/ml   |
| Purification:           | Affinity chromatography (> 95% (by SDS-PAGE)  |
| Conjugation:            | Unconjugated  |
| Storage:                | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.                        |
| Stability:              | Shelf life: one year from despatch.   |
| Predicted Protein Size: | ~ 42 kDa  |
| Gene Name:              | LIM homeobox transcription factor 1 beta  |
| Database Link:          | <u><a href="#">Entrez Gene 16917 Mouse</a></u> <u><a href="#">Entrez Gene 4010 Human</a></u><br><u><a href="#">O60663</a></u>               |



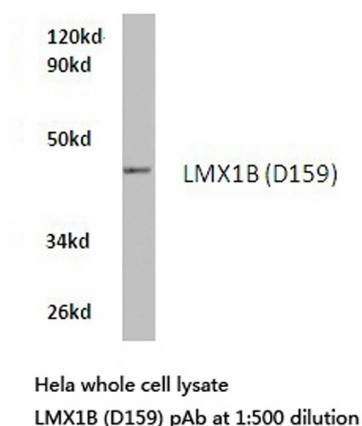
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**Background:** The Lim class homeobox gene Lmx1b is required for the normal development of the dopaminergic system. Loss of dopaminergic neurons is associated with one of the most prominent human neurological disorders, Parkinson's disease (PD). Dopaminergic neurons play an important role in the control of multiple brain functions including voluntary movement alongside an array of behavioral processes such as mood, reward, addiction, and stress. Lmx1b is one of several transcription factors involved in the generation of dopaminergic neurons in the brain.

**Synonyms:** LMX1B, LIM homeobox transcription factor 1-beta, LIM/homeobox protein LMX1B, LIM/homeobox protein 1.2, LMX-1.2

**Protein Families:** Transcription Factors

### Product images:



Western blot (WB) analysis of LMX1B antibody (Cat.-No.: [AP20515PU-N]) in extracts from hela cells.