

## Notch 4 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Notch-4;Int-3;Notch4;Int3
Protein Construction:	Glu1042-Leu1441
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P31695
Molecular Weight:	42.91 kDa (predicted). Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 $\mu$ m filtered solution in PB, 500 mM NaCl, 10% Glycerol (pH 7.0).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

The Notch signaling pathway is important for cell-cell communication; it is involved in gene regulation mechanisms that control multiple cell differentiation processes during embryonic and adult life. Notch-4 expression correlates with Ki67. Notch-4 also plays a key role in breast cancer stem-like cells.

#### Reference

Ding LC, She L, Zheng DL, Huang QL, Wang JF, Zheng FF, Lu YG. Notch-4 contributes to the metastasis of salivary adenoid cystic carcinoma. *Oncol Rep.* 2010 Aug;24(2):363-8. doi: 10.3892/or\_00000868. PMID: 20596622.

Yun J, et al. Crosstalk between PKC $\alpha$  and Notch-4 in endocrine-resistant breast cancer cells. *Oncogenesis.* 2013 Aug 5;2(8):e60. doi: 10.1038/oncsis.2013.26. PMID: 23917222; PMCID: PMC3759125.

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