

## Recombinant Human LAT2, His-tagged

**Cat. No.** LAT2-29925TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment, corresponding to amino acids 27-243 of Human NTAL with N terminal His tag; 238 amino acids with tag, MWt 26.2kDa.                                                                                                                                |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                  |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>      | 217 amino acids                                                                                                                                                                                                                                                        |
| <b>Description</b>        | This gene is one of the contiguous genes at 7q11.23 commonly deleted in Williams syndrome, a multisystem developmental disorder. This gene consists of at least 14 exons, and its alternative splicing generates 3 transcript variants, all encoding the same protein. |
| <b>Conjugation</b>        | HIS                                                                                                                                                                                                                                                                    |
| <b>Molecular Weight</b>   | 26.200kDa inclusive of tags                                                                                                                                                                                                                                            |
| <b>Tissue specificity</b> | Highly expressed in spleen, peripheral blood lymphocytes, and germinal centers of lymph nodes. Also expressed in placenta, lung, pancreas and small intestine. Present in B-cells, NK cells and monocytes. Absent from T-cells (at protein level).                     |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                 |
| <b>Storage buffer</b>     | Preservative: None<br>Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0                                                                                                                                                                                                |

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|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                                           |
| <b>Sequences of amino acids</b> | MGSSHHHHHH SSGLVPRGSH MRCSRPGAKR SEKIYQQRSL REDQQSFTGS<br>RTYSLVGQAW PGPLADMAPT RKDKLLQFYP SLEDPASSRY QNFSKGSRHG<br>SEEAYIDPIA MEYYNWGRFS KPPEDDDANS YENVCLICKQK TTETGAQQEG<br>IGGLCRGDLS LSLALKTGPT SGLCPSASPE EDEESEDYQN SASIHWRES<br>RKVMGQLQRE ASPGPVGSPD EEDGEPDYVN GEVAATEA |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                                                                   |
| <b>Gene Name</b>                | LAT2 linker for activation of T cells family, member 2 [ Homo sapiens ]                                                                                                                                                                                                           |
| <b>Official Symbol</b>          | LAT2                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>                 | LAT2; linker for activation of T cells family, member 2; WBSCR5, WBSCR15, Williams Beuren syndrome chromosome region 5; linker for activation of T-cells family member 2; HSPC046; LAB; linker for activation of B cells; linker for activation of T cells; tr                    |
| <b>Gene ID</b>                  | 7462                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>              | NM_014146                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>           | NP_054865                                                                                                                                                                                                                                                                         |
| <b>MIM</b>                      | 605719                                                                                                                                                                                                                                                                            |
| <b>Uniprot ID</b>               | Q9GZY6                                                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b>      | 7q11.23                                                                                                                                                                                                                                                                           |

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|                 |                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | B Cell Receptor Signaling Pathway, organism-specific biosystem;<br>I signaling in mast cells, organism-specific biosystem; |
| <b>Function</b> | SH2 domain binding; protein binding;                                                                                       |

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