

# Recombinant Mouse Btla Protein, hFc-tagged, Alexa Fluor 555 conjugated

**Cat. No.** BTLA-8698MAF555    **Lot. No.** (See product label)

## SPECIFICATION

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Alexa Fluor 555 conjugated recombinant Mouse BTLA (Glu30-Gly176) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).                                                                                                                                                                                                                               |
| <b>Species</b>                      | Mouse                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>                       | HEK293                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>                | Glu30-Gly176                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>                  | B- and T-lymphocyte attenuator (BTLA) is also known as B- and T-lymphocyte-associated protein, CD antigen CD272. BTLA contains one Ig-like V-type (immunoglobulin-like) domain. As a lymphocyte inhibitory receptor, BTLA/CD272 inhibits lymphocytes during immune response. BTLA/CD272 can interact with tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2, and interact with TNFRSF14/HVEM. |
| <b>Form</b>                         | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>               | The protein has a calculated MW of 42.7 kDa. The protein migrates as 55-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                                                                                                   |
| <b>N-terminal Sequence Analysis</b> | Glu 30                                                                                                                                                                                                                                                                                                                                                                                         |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 1.0 EU/ µg by the LAL method.                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>         | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                |
| <b>Characteristic</b> | <p>Disulfide-linked homodimer</p> <p>Labeled with Alexa Fluor 555 via amines</p> <p>With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.</p>                                                                                        |
| <b>Storage</b>        | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| <b>Storage Buffer</b> | Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.                                                                                                                                                                                                                                                       |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.                                                                                                                                                                          |
| <b>Conjugation</b>    | Alexa Fluor 555                                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| <b>Gene Name</b>       | Btla B and T lymphocyte associated [ Mus musculus (house mouse) ] |
| <b>Official Symbol</b> | Btla                                                              |

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|                       |                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | BTLA; B and T lymphocyte associated; B- and T-lymphocyte attenuator; B and T lymphocyte attenuator; B- and T-lymphocyte-associated protein; A630002H24; MGC124217; MGC124218 |
| <b>Gene ID</b>        | <a href="#">208154</a>                                                                                                                                                       |
| <b>mRNA Refseq</b>    | <a href="#">NM_001037719</a>                                                                                                                                                 |
| <b>Protein Refseq</b> | <a href="#">NP_001032808</a>                                                                                                                                                 |
| <b>UniProt ID</b>     | <a href="#">Q7TSA3</a>                                                                                                                                                       |

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