

## Active Recombinant Mouse Histocompatibility 60a, Fc-tagged

**Cat. No.** H60a-5636M    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Mouse H60a protein was expressed in Murine myeloma cell line with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Mouse H60a Asp30-Gln212 (N-terminus).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>              | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Length</b>      | 30-212 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>         | H60a was originally described as an immunodominant histocompatibility antigen that is expressed in BALB mice but not in B6 mice. More recently it was reported to function as a ligand for mouse NKG2D, an activating receptor found on NK cells, on some T cell subsets, and on stimulated macrophages. H60a shares approximately 25 percent amino acid identity with the Rae-1 family, a small group of proteins that also function as ligands for mouse NKG2D. H60a and the Rae-1 proteins are distantly related to MHC class I proteins, but they possess only the $\alpha 1$ and $\alpha 2$ Ig-like domains, and have no capacity to bind peptide or interact with $\beta 2$ -microglobulin. |
| <b>Form</b>                | Lyophilized from a 0.2 $\mu$ m filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>N-terminal Sequence</b> | Asp30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Weight</b>    | 47.8 kDa (monomer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                        |                                                                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Activity</b>        | Measured by its ability to bind to immobilized rmNKG2D/Fc Chimera in a functional ELISA.                                                                                                                                                                             |
| <b>Endotoxin Level</b> | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                   |
| <b>SDS-PAGE</b>        | 75-90 kDa, reducing conditions.                                                                                                                                                                                                                                      |
| <b>Purity</b>          | >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                          |
| <b>Reconstitution</b>  | 100 µg/mL in sterile PBS                                                                                                                                                                                                                                             |
| <b>Storage</b>         | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution. |

## GENE INFORMATION

|                        |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | H60a histocompatibility 60a [ Mus musculus ]                                             |
| <b>Official Symbol</b> | H60a                                                                                     |
| <b>Synonyms</b>        | H60a; histocompatibility 60a; H60; histocompatibility 60; Histocompatibility antigen 60a |
| <b>Gene ID</b>         | 15101                                                                                    |
| <b>mRNA Refseq</b>     | NM_010400                                                                                |
| <b>Protein Refseq</b>  | NP_034530                                                                                |
| <b>UniProt ID</b>      | Q3TDZ7                                                                                   |

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|----------------------------|-------------------------------------------------|
| <b>Chromosome Location</b> | 10                                              |
| <b>Pathway</b>             | Natural killer cellmediated cytotoxicity        |
| <b>Function</b>            | natural killer celllectin-like receptor binding |

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