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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-HLA-E [3D12] Standard Size Ab03740-10.0

Isotype and Format: Human IgG1, Kappa

Clone Number: 3D12

Alternative Name(s) of Target: HLA-E; sHLA-E; HLA-6.2; HLA class I histocompatibility antigen alpha chain E; Major histocompatibility complex class I E; MHC; MHC class I antigen E; MHC HLA E alpha 1; MHC HLA E alpha 2.1; HLAB; HLA-B; HLA-C; HLAC

UniProt Accession Number of Target Protein: P13747; P01889; P10321

Published Application(s): functional assay, FC, IF

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing HLA-B27 transgenic mice with recombinant human HLA-E purified from AEH cells (Lymphoblastoid cell line LCL 721.221 cells transfected with HLA-E gene).

Specificity: This antibody binds an extracellular epitope on the human HLA-E, a member of human leukocyte antigen family. This antibody is capable of reacting with free HLA-E heavy chain as well as heavy chain associated with b2-microglobulin and peptide. This antibody is reported to cross react with HLA-B and HLA-C but not with HLA-A, HLA-F or HLA-G. The human HLA-E is a non-classical MHC class 1B molecule involved in immune self-nonsel self discrimination. HLA-E plays a very important role in cell recognition by NK cells. Peptide-bound HLA-E-B2M heterotrimeric complex primarily functions as a ligand for natural killer (NK) cell inhibitory receptor KLRD1-KLRC1, enabling NK cells to monitor the expression of other MHC class I molecules in healthy cells and to tolerate self.

Application Notes: The biotin conjugated version of this antibody was used for the study of HLA-E expression and distribution on PBMCs using flow cytometry. This antibody was also used in an assay to study the effect of HLA-E on inhibition of NK-mediated cytotoxicity of LCL .221 cell line. The presence of 3D12 resulted in complete restoration of lysis (PMID: 9560253). It was reported that binding of this antibody to HLA-E is inhibited by the peptides sequences 115QFAYDGKDY123 and 137DTAAQI142. It was also reported that this antibody is capable of binding several HLA-Ia antigens like HLA-B and HLA-C (PMID: 21145594). This antibody was used in a study to determine the surface expression of HLA-E in human tumors using immunofluorescent staining and flow cytometry (PMID: 12618909).

Antibody First Published in: Lee et al. HLA-E surface expression depends on binding of TAP-dependent peptides derived from certain HLA class I signal sequences. *J Immunol.* 1998 May 15;160(10):4951-60.

[PMID:9590243](#)

Note on publication: This paper evaluates the regulation of surface expression of HLA-E by signal peptides using antibodies.

Product Form

Size: 100 µg Purified antibody.

Purification:

Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.