Data Sheet (Cat.No.TMAB-07171)

Anti-HLA-E Antibody (8J391)

Product Details

Ig Type:	IgG2a, Kappa
Reactivity:	Human
Clone:	8J391
Purification:	Protein G purified

Applications

Verified Activity:	1. Cell line: THP-1 Fixative: 4% Paraformaldehyde Permeabilization: 0.1% TritonX-100 Primary Ab dilution: 1:50 Primary incubation condition: 4°C overnight Secondary Ab: Goat Anti-Mouse IgG Nuclear counter stain: DAPI (Blue) Comment: Color green is the positive signal for TMAB-07171 2. Blocking buffer: 5% NFDM/TBST Primary Ab dilution: 1:1000 Primary Ab incubation condition: 2 hours at room temperature Secondary Ab: Goat Anti-Mouse IgG H&L (HRP) Lysate: 1: THP-1, 2: Raji Protein loading quantity: 20 μg Exposure time: 3 s Predicted MW: 40 kDa Observed MW: 40 kDa 3. Tissue: Human tonsil Section type: Formalin fixed & Paraffin-embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary Ab dilution: 1:100 Primary Ab incubation condition: 1 hour at room temperature Secondary Ab: SP Kit (Mouse) Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for TMAB-07171
Application:	WB,IHC-P,IHC-Fr,ICC/IF,IF
Recommended	WB: 1:500-1000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Gene ID: 3133

Research Background

HLA-E belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. HLA-E binds a restricted subset of peptides derived from the leader peptides of other class I molecules. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. [provided by RefSeq, Jul 2008]

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