## For Research Use Only

## HLA-E Monoclonal antibody, PBS Only



Catalog Number: 66530-1-PBS

**Basic Information** 

Catalog Number:

66530-1-PBS

GenBank Accession Number: BC002578

**Purification Method:** Protein A purification

100ug, Concentration: 1 mg/ml by

GeneID (NCBI):

CloneNo.:

1A4G3

Nanodrop:

**UNIPROT ID:** P13747 Full Name:

Mouse Isotype: IgG2a

AG6724

major histocompatibility complex,

class I. E

Immunogen Catalog Number:

Calculated MW:

40 kDa

Observed MW:

40 kDa

**Applications** 

**Tested Applications:** 

WB, IF, IHC, Indirect ELISA

Species Specificity:

**Background Information** 

Human major histocompatibility complex (MHC) antigens, also referred to as human leukocyte antigens (HLA), are encoded by genes located on the short arm of chromosome 6 (6p21.3). There are two classes of HLA antigens: class I and class II. This class I molecules are membrane glycoproteins composed of a heavy (alpha) chain which is encoded by a HLA class I gene, and β2-microglobulin light (beta) chain. The most extensively characterized members of the HLA class I gene family are the genes encoding the major transplantation antigenes, HLA-A, B and C. HLA-E is a non-classical MHC class I molecule. HLA-E is frequently overexpressed in tumor diseases, transplants and  $virus-infected\ cells\ and\ represents\ an\ immunomodulatory\ molecule\ by\ binding\ to\ the\ receptors\ CD94/NKG2A,\ -B$ and -C on NK and T cells. Due to its immune suppressive features HLA-E expression might represent an important mechanism of tumors to escape immune surveillance.(PMID: 667938; 3375250; 2249951; 27589686)

Storage

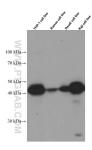
Storage:

Store at -80°C.

Storage Buffer: PBS Only

in USA), or 1(312) 455-8498 (outside USA)

## Selected Validation Data



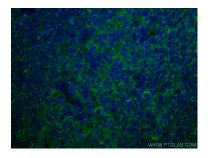
THP-1, Ramos, Daudi, and Raji cells were subjected to SDS PAGE followed by western blot with 66530-1-Ig (HLA-E antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66530-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 66530-1-lg (HLA-E antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66530-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 66530-1-Ig (HLA-E antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66530-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using HLA-E antibody (66530-1-lg, Clone: 1A4G3) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66530-1-PBS in a different storage buffer formulation.