

For Research Use Only

# HLA-E Polyclonal antibody

Catalog Number: 15008-1-AP

Featured Product



## Basic Information

<b>Catalog Number:</b> 15008-1-AP	<b>GenBank Accession Number:</b> BC002578	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop and 273 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3133	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>Full Name:</b> major histocompatibility complex, class I, E	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 40 kDa	
<b>Immunogen Catalog Number:</b> AG6703	<b>Observed MW:</b> 40 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
human

**Positive Controls:**

WB : THP-1 cells, human kidney tissue, human liver tissue, HUVEC cells

## 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  $\beta$ 2-microglobulin light (beta) chain. The most extensively characterized members of the HLA class I gene family are the genes encoding the major transplantation antigens, 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 -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

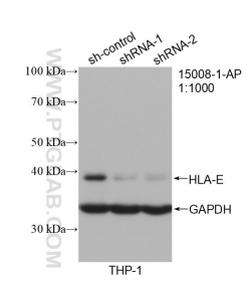
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

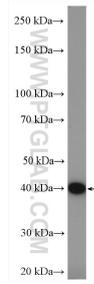
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



WB result of HLA-E antibody (15008-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HLA-E transfected THP-1 cells.



THP-1 cells were subjected to SDS PAGE followed by western blot with 15008-1-AP (HLA-E antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.