For Research Use Only

HLA-E Polyclonal antibody

Catalog Number:27411-1-AP Featured Product

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
27411-1-AP

Size:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG26581

GenBank Accession Number:
BC002578

GeneID (NCBI):
3133

UNIPROT ID:
P13747

Full Name:
major histocompatibility complex, class I, E

Calculated MW:
40 kDa

Observed MW:
40-42 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:50-1:500

Applications

Tested Applications:
IHC, WB, ELISA

Species Specificity:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human placenta tissue, U-937 cells, MDA-MB-231 cells, HL-60 cells, THP-1 cells

IHC : human tonsillitis tissue, mouse spleen tissue

Background Information

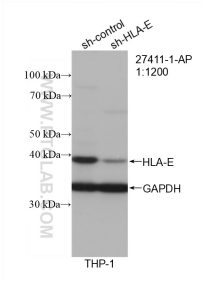
Human major histocompatibility complex (MHC) antigens, also referred to as human leukocyte antigens (HLA), are encoded by genes located on the short arm of chromosome 6 (6p21.3). There are two classes of HLA antigens: class I and class II. This class I molecules are membrane glycoproteins composed of a heavy (alpha) chain which is encoded by a HLA class I gene, and β 2-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

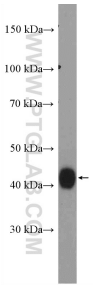
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

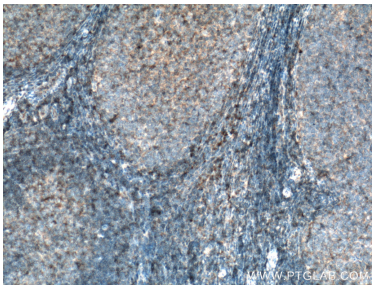
Selected Validation Data



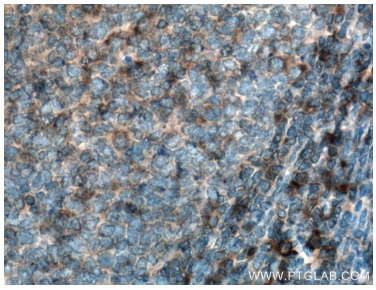
WB result of HLA-E antibody (27411-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-HLA-E transfected THP-1 cells.



human placenta tissue were subjected to SDS PAGE followed by western blot with 27411-1-AP (HLA-E antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27411-1-AP (HLA-E antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27411-1-AP (HLA-E antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).