For Research Use Only

## HLA-E Monoclonal antibody

Catalog Number:66530-1-lg 2 Publications

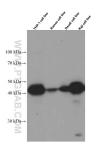


Basic Information	Catalog Number: 66530-1-Ig	GenBank Ac BC002578	cession Number:	Purification Method: Protein A purification	
	Size:	Genel D (NCI	31):	CloneNo.:	
	2100 µg/ml	3133		1A4G3	
	Source:			Recommended Dilutions: WB 1:2500-1:10000 IHC 1:200-1:800 IF-P 1:50-1:500	
	Mouse	P13747 Full Name:			
	Isotype: IgG2a Immunogen Catalog Number:		compatibility complex,		
	AG6724	Calculated M 40 kDa	4W:		
		Observed M 40 kDa	Observed MW: 40 kDa		
Applications	Tested Applications: WB, IF-P, IHC, ELISA			trols:	
	Cited Applications: WB, IF			THP-1 cells, Jurkat cells, HUVEC cells, human enta tissue, Ramos cells, Daudi cells, Raji cells	
	Species Specificity:		IHC : human	IHC : human tonsillitis tissue, human placenta tissue	
	Human IF-P: huma		IF-P : human	tonsillitis tissue,	
	Cited Species: 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				
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 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)				
Notable Publications	Author	Pubmed ID	Journal	Application	
	S Sebastian Pineda	38521060	Cell	IF	
	Xiaowei Liu	36706761	Cancer Cell	WB	
Storage	Storage: Store at -20°C. Stable for one ye Storage Buffer: PBS with 0.02% sodium azide a				

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

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

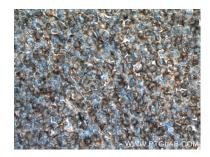
## Selected Validation Data



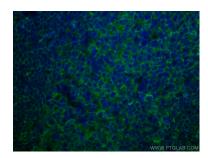
THP-1, Ramos, Daudi, and Raji cells were subjected to SDS PAGE followed by western blot with 66530-1-lg (HLA-E antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 66530-1-1g (HLA-E antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 66530-1-1g (HLA-E antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using HLA-E antibody (66530-1-Ig, Clone: 1A4G3) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).