Datasheet for ABIN652888

anti-HLAG antibody (AA 62-89)

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Overview

Quantity:	400 µL
Target:	HLAG
Binding Specificity:	AA 62-89
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HLAG antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This HLA-G antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 62-89 amino acids from the Central region of human HLA-G.
Clone:	RB21800
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	HLAG
Alternative Name:	HLA-G (HLAG Products)

Target Details

Background:	HLA-G 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-G is expressed on fetal derived placental cells. 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 domain, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exon 6 encodes the cytoplasmic tail.
Molecular Weight:	38224
Gene ID:	3135
NCBI Accession:	NP_002118
UniProt:	P17693
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Cancer Immune Checkpoints, Human Leukocyte Antigen (HLA) in Adaptive Immune Response

Application Details

Application Notes:	WB: 1:1000. IHC-P-Leica: 1:500. FC: 1:25
Restrictions:	For Research Use only

Handling

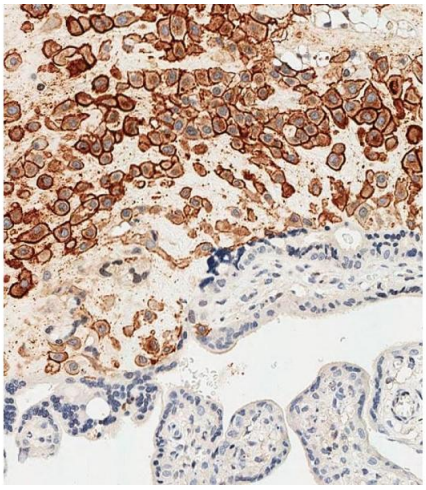
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:

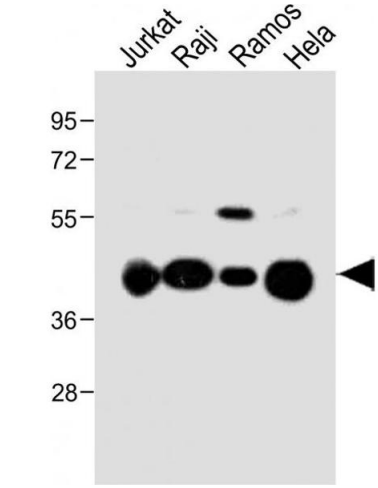
He, Yang, Li: "The clinical pathological significance of Thy1 and CD49f expression in chondrosarcomas." in: **Pathology, research and practice**, Vol. 212, Issue 7, pp. 636-42, (2017) (PubMed).

Images



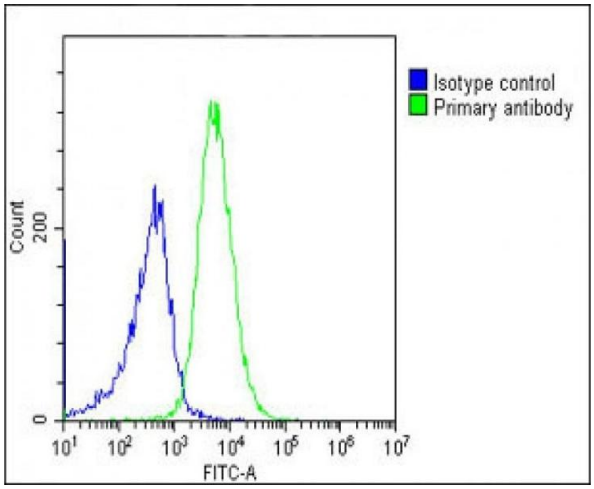
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffin-embedded Human placenta tissue using (ABIN652888 and ABIN2842575) performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH 9. 0). Samples were incubated with primary Antibody (1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Western Blotting

Image 2. All lanes : Anti-HLA-G Antibody (Center) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: Raji whole cell lysate Lane 3: Ramos whole cell lysate Lane 4: Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 38 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Flow Cytometry

Image 3. Overlay histogram showing Ramos cells stained with (ABIN652888 and ABIN2842575)(green line). The cells were fixed with 2 % paraformaldehyde (10 min). The cells were then icubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody ((ABIN652888 and ABIN2842575), 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

