

CD247 Polyclonal Antibody

Catalog number: 12837-2-AP

Size: 45 µg/150 µl

Source: Rabbit

Isotype: IgG

Synonyms:

CD247; CD247, CD247 molecule,

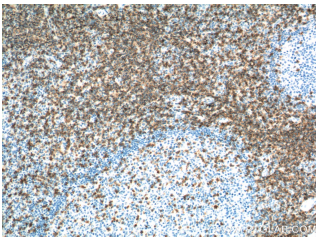
CD3 ZETA, CD3H, CD3Q, CD3Z,

T cell receptor T3 zeta chain,

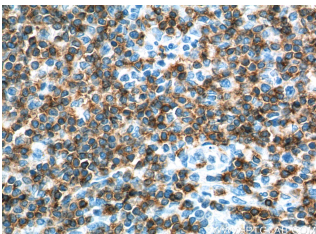
T3Z, TCRZ



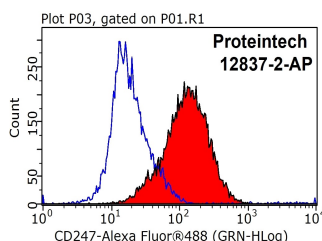
Jurkat cells were subjected to SDS PAGE followed by western blot with 12837-2-AP (CD247 antibody) at dilution of 1:500



Immunohistochemistry of paraffin-embedded human tonsillitis tissue slide using 12837-2-AP (CD247 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemistry of paraffin-embedded human tonsillitis tissue slide using 12837-2-AP (CD247 Antibody) at dilution of 1:200 (under 40x lens).



Background

CD247, also known as CD3Z (T-cell surface glycoprotein CD3 zeta chain), belongs to the CD3Z/FCER1G family. CD3 is a complex of proteins that directly associates with the T cell receptor (TCR). The TCR/CD3 complex of T-lymphocytes consists of either a TCR alpha/beta or TCR gamma/delta heterodimer coexpressed at the cell surface with the invariant subunits of CD3 labeled gamma, delta, epsilon, zeta, and eta. The TCR recognizes antigens bound to major histocompatibility complex (MHC) molecules. TCR-mediated peptide-MHC recognition is transmitted to the CD3 complex, leading to the intracellular signal transduction. CD3 is considered to be a pan-T cell marker for detection of normal and neoplastic T cells.

Applications

Tested applications:	ELISA, WB, FC, IP, IHC
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Mouse
Calculated CD247 MW:	16 kDa
Observed CD247 MW:	16 kDa
Positive WB detected in	Jurkat cells, human spleen tissue, mouse spleen tissue
Positive IP detected in	Jurkat cells
Positive IHC detected in	Human tonsillitis tissue, human lymphoma tissue
Positive FC detected in	Jurkat cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000 IHC: 1:50-1:500 FC: N/A

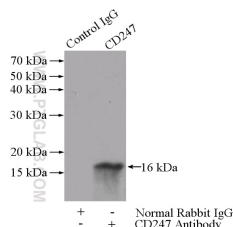
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3889
GenBank accession number:	BC025703
Gene ID (NCBI):	919
Full name:	CD247 molecule

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



1X10⁶ Jurkat cells were stained with 0.5ug CD247 antibody (12837-2-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

IP Result of anti-CD247 (IP:12837-2-AP, 3ug; Detection:12837-2-AP 1:700) with Jurkat cells lysate 1200ug.