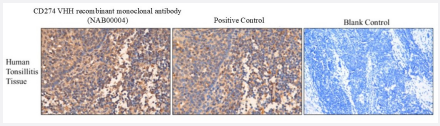
NanoAb™

VHH-His tag NanoAb™ Targeting Human CD274

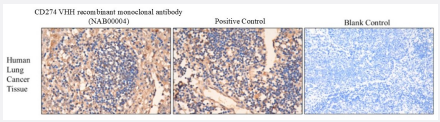
Catalog # NAB00004 Size 100 ug

Applications



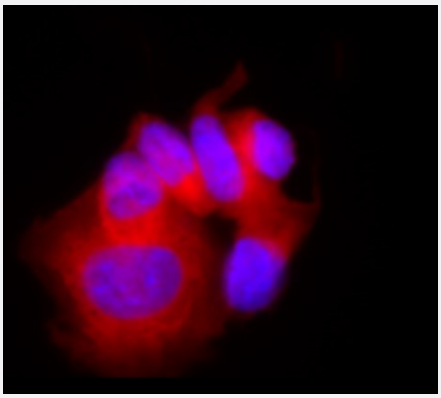
Immunohistochemistry

Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slides using CD274 VHH recombinant monoclonal antibody at 2.5ug/ml and positive control at 1:500 dilution (under 40x lens), respectively. Heat-mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemistry

Immunohistochemical analysis of paraffin-embeddedhuman lung cancer tissue slides using CD274 VHH recombinant monoclonal antibody at 2.5ug/ml and positive control at 1:500 dilution (under 40x lens), respectively. Heat-mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescence

Immunofluorescence analysis of paraformaldehyde fixed SH-SY5Y cells stained with CD274 VHH recombinant monoclonal antibody at 2 ug/mL. The nuclear stain is DAPI (blue).

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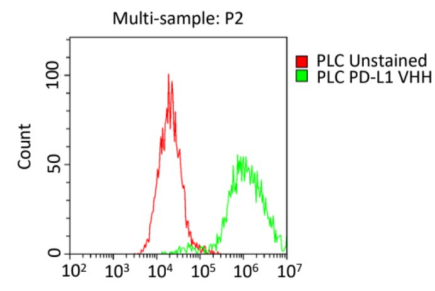
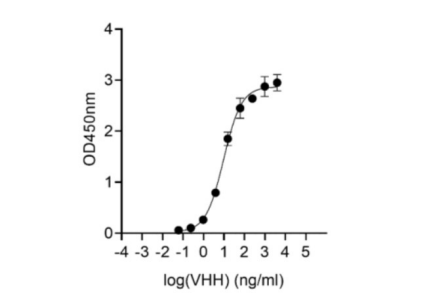


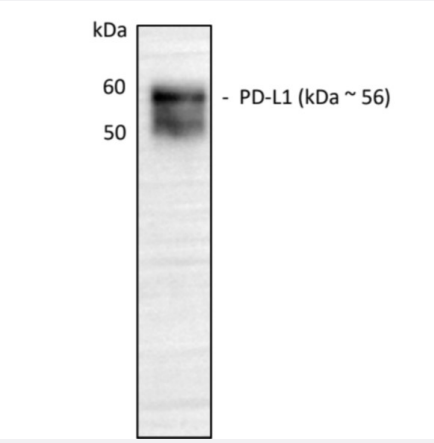
Flow Cytometry

PD-L1 stable expressing PLC/PRF/5 cells were stained with CD274 VHH recombinant monoclonal antibody at a dilution of 1:50.



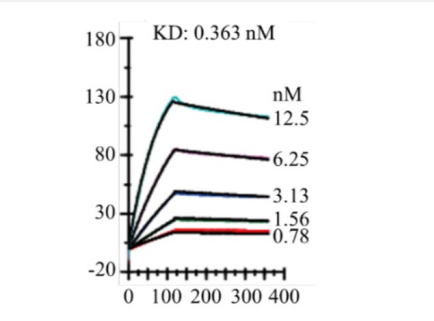
Enzyme-linked Immunoabsorbent Assay

Indirect ELISA showing CD274 VHH recombinant monoclonal antibody binding to purified PD-L1. Plates were coated with 200 ng/well-purified protein and the binding of CD274 VHH recombinant monoclonal antibody was assessed in serial dilution from 0.06 ng/mL primary antibody in triplicate.



Western Blot

Lysates (30 ug) were subjected to SDS-PAGE followed by western blot with CD274 VHH recombinant monoclonal antibody at dilution of 1:1000 incubated overnight at 4°C.



Surface Plasmon Resonance

Captured human PD-L1 on CM5 Chip can bind CD274 VHH recombinant monoclonal antibody with an affinity constant of 0.363 nM as determined in SPR assay (Biacore T200).

Specification

Product Description	VHH-His tag NanoAb™ targeting human CD274 protein.
Antibody Species	Alpaca

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Immunogen	Human PD-L1 recombinant protein
Theoretical MW (kDa)	14.4
Reactivity	Crab-eating macaque, Human
Epitope	Monospecific
Tag	His tag at C-terminus
Conjugation	Unconjugated
Preparation Method	*Escherichia coli* expression system
Purification	Affinity chromatography
Conjugation	Unconjugated
Affinity	Not measured
Form	Lyophilized
Purity	> 95% by SDS-PAGE
Recommend Usage	ELISA (1:10000-1:100000) WB (1:1000-1:3000) IHC (1:200-1:800) IF (1:200-1:800) FC (1:50-1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS pH 7.4.
Storage Instruction	Store at 4°C on dry atmosphere. After reconstitution with deionized water or with 50% glycerol (ACS grade or better), store at -20°C o r lower. Aliquot to avoid repeated freezing and thawing.

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