

For Research Use Only

S100A14 Recombinant antibody

Catalog Number:83559-5-RR



Basic Information

Catalog Number: 83559-5-RR	GenBank Accession Number: BC005019	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 57402	CloneNo.: 240528B6
Source: Rabbit	UNIPROT ID: Q9HCY8	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500
Isotype: IgG	Full Name: S100 calcium binding protein A14	
Immunogen Catalog Number: AG0757	Calculated MW: 12 kDa	
	Observed MW: 12 kDa	

Applications

Tested Applications:
WB, IHC, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

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 : mouse stomach tissue, rat stomach tissues, human saliva samples

IHC : human ovary cancer tissue, human intrahepatic cholangiocarcinoma tissue

Background Information

The S100 family is a multifunctional group of EF-hand type calcium-binding proteins. S100A14 protein (previously known as BCMP84, S100A15) is a recently identified member of the S100 family. It is differentially expressed in a number of different human malignancies like ovary, breast, uterus, kidney, rectum and colon cancers, and esophageal and oral squamous cell carcinomas (OSCCs).⁷

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

*** 20ul sizes contain 0.1% BSA

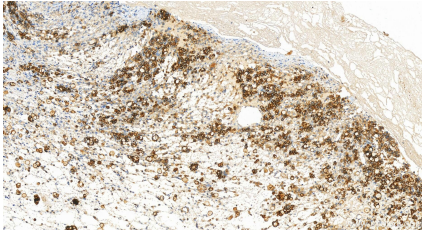
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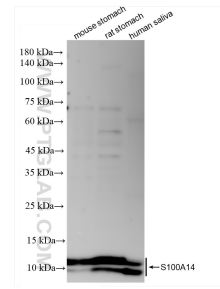
E: proteintech@ptglab.com
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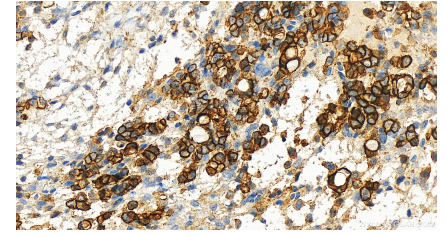
Selected Validation Data



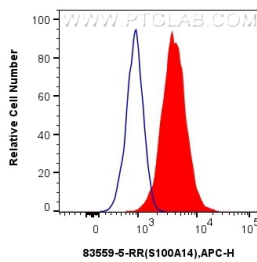
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83559-5-RR (S100A14 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



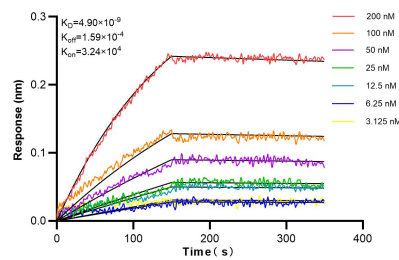
Various lysates were subjected to SDS PAGE followed by western blot with 83559-5-RR (S100A14 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83559-5-RR (S100A14 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g S100A14 Recombinant antibody (83559-5-RR, Clone:240528B6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83559-5-RR against Human S100A14 were performed. The affinity constant is 4.90 nM.