

CoraLite®594-conjugated Cytokeratin 18 Monoclonal antibody

Catalog Number: **CL594-66187**

Basic Information

Catalog Number: CL594-66187	GenBank Accession Number: BC000180	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 3875	CloneNo.: 1G11C4
Source: Mouse	UNIPROT ID: P05783	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: keratin 18	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG1260	Calculated MW: 48 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : HeLa cells, HepG2 cells
Species Specificity: human	

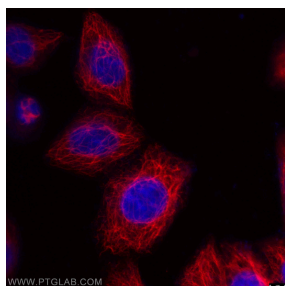
Background Information

Keratins are a large family of proteins that form the intermediate filament cytoskeleton of epithelial cells, which are classified into two major sequence types. Type I keratins are a group of acidic intermediate filament proteins, including K9-K23, and the hair keratins Ha1-Ha8. Type II keratins are the basic or neutral counterparts to the acidic type I keratins, including K1-K8, and the hair keratins, Hb1-Hb6. KRT18, also named as CYK18, PIG46 and K18, is the most commonly found members of the intermediate filament gene family. KRT18 is a type I keratin which is found primarily in non squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas but not in squamous cell carcinomas. The antibody is conjugated with CL594, Ex/Em 593 nm/614 nm.

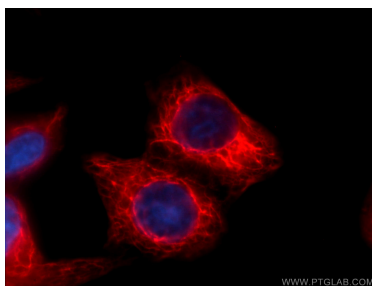
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

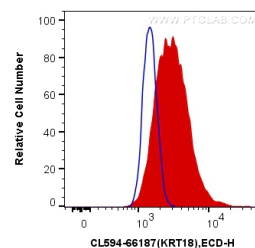
Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CL594-66187 (Cytokeratin 18 antibody) at dilution of 1:100.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL594-66187 (Cytokeratin 18 antibody) at dilution of 1:200.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human KRT18 (CL594-66187, Clone:1G11C4) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).