

CoraLite® Plus 488-conjugated Cytokeratin 19 Polyclonal antibody

Catalog Number: **CL488-10712**

Basic Information

Catalog Number:

CL488-10712

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1085

GenBank Accession Number:

BC007628

GeneID (NCBI):

3880

UNIPROT ID:

P08727

Full Name:

keratin 19

Calculated MW:

40 kDa

Purification Method:

Antigen affinity purification

Excitation/Emission maximum wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF, FC (Intra)

Species Specificity:

human, mouse

Background Information

Keratins are a large family of proteins that form the intermediate filament cytoskeleton of epithelial cells. Keratin expression is highly regulated, tissue specific, and varies according to cell-state. Type I keratins consist of acidic, low molecular weight proteins with MW ranging from 40 kDa (KRT19) to 64 kDa (KRT9). Type 2 keratins consist of basic or neutral, high molecular weight proteins with MW from 52 kDa (KRT8) to 67 kDa (KRT18). Keratin 19 is a type I cytokeratin. It is a biochemical marker of skin stem cells in vivo and in vitro.

Storage

Storage:

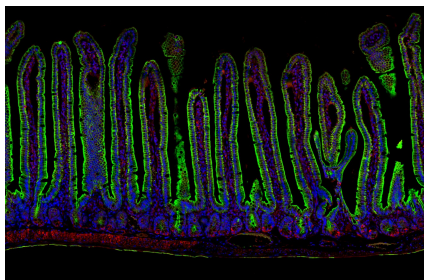
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

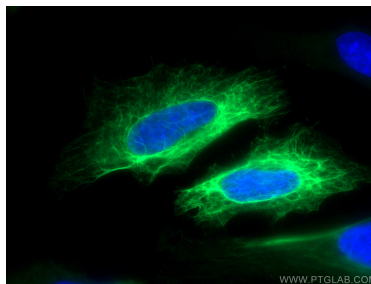
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

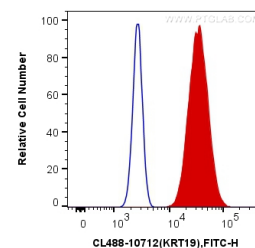
Selected Validation Data



Adult mouse small intestine stained for Cytokeratin 19 (green, CL488-10712) and BMI1 (red, 10832-1-AP). BMI1 stains intestinal stem cells located at the base of the villi. As these stem cells differentiate into intestinal epithelial cells, they acquire Cytokeratin 19 expression. Cytokeratin 19 was conjugated to Coralite 488. Samples were fixed in 4% PFA, embedded in paraffin, and imaged on a confocal microscope. Image credit: @Immunofluorescence on Instagram.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CoraLite® Plus 488 Cytokeratin 19 antibody (CL488-10712) at dilution of 1:200.



1X10⁶ MCF-7 cells were intracellularly stained with 0.2 ug CoraLite® Plus 488 Anti-Human Cytokeratin 19 (CL488-10712) (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).