

Pan-Keratin (Type I) Recombinant monoclonal antibody

Catalog Number: 86238-2-RR

Basic Information

Catalog Number:

86238-2-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

GeneID (NCBI):

Pan-Keratin (Type I)

UNIPROT ID:

Q15323

Full Name:

Observed MW:

45-65 kDa

Purification Method:

Protein A purification

CloneNo.:

251039C1

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:500-1:2000

IF-P: 1:250-1:1000

Applications

Tested Applications:

WB, IHC, IF-P, 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 : HaCaT cells, A431 cells, HT-29 cells, mouse skin tissue, rat skin tissue, rat colon tissue

IHC : human prostate cancer tissue, Human Kidney(renal cell) Cancer, human tonsil tissue

IF-P : human cervical cancer tissue, human colon cancer tissue, human lung cancer tissue, mouse skin tissue

Background Information

Keratin is a family of fibrous structural proteins that are key components in hair, nails, feathers, hooves, and the outer layer of skin (epidermis). There are two main types of keratin: Type I (acidic) and Type II (basic/neutral), which form heterodimers to create intermediate filaments, providing mechanical strength to cells. Type I keratins (or Type I cytokeratins) are acidic, low molecular weight (40-64 kDa) proteins that form Type I intermediate filaments (IFs) in the cytoplasmic cytoskeleton of all mammalian epithelial cells. They are encoded on chromosome 17q and include keratins K9-K10, K12-K28, and K31-K40.

Storage

Storage:

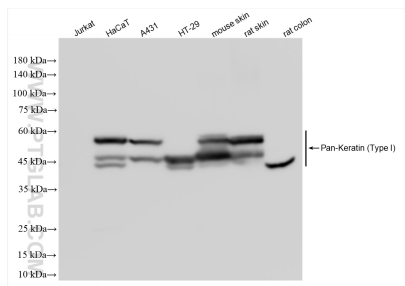
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

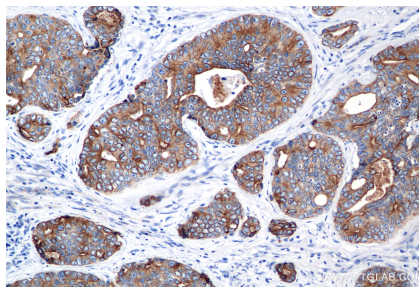
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

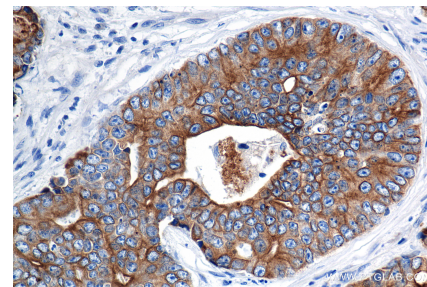
Selected Validation Data



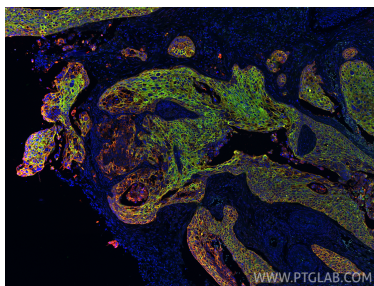
Various lysates were subjected to SDS PAGE followed by western blot with 86238-2-RR (Pan-Keratin (Type I) antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 86238-2-RR (Pan-Keratin (Type I) antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 86238-2-RR (Pan-Keratin (Type I) antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human cervical cancer tissue using Pan-Keratin (Type I) antibody (86238-2-RR, Clone: 251039C1) at dilution of 1:500 and CoraLite® 594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), Pan-Keratin (Type II) antibody 86370-1-RR labeled with FlexAble 2.0 CoraLite® Plus 488 Kit (KFA501, green). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).