

Mouse Anti-CK18 antibody

SLM-33101M

Product Name CK18

Chinese Name 细胞角蛋白 18 单克隆抗体

Alias K1C18_HUMAN; Keratin, type I cytoskeletal 18; KRT18; CYK18; Cell proliferation-inducing gene 46 protein; Cytokeratin-18 (CK-18); Keratin-18 (K18); PIG46; Keratin 18;

Research Area Tumour Cell biology immunology Signal transduction

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 3C3

React Species Human, Rat, (predicted: Mouse,)
WB=1:500-1000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 48kDa

Cellular localization cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen Recombinant human CK18

Lsotype IgG

Purification affinity purified by Protein G

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

KRT18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Function:

When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.

Post-translational modifications:

Phosphorylation increases by IL-6.

Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-231 by either caspase-3, caspas-6 or caspase-7.

O-glycosylated at multiple sites; glycans consist of single N-acetylglucosamine residue.

Similarity:

Belongs to the intermediate filament family.

Product Detail

SWISS:
P05783

Gene ID:
3875

Database links:

[Entrez Gene: 506480](#) Cow

[Entrez Gene: 3875](#) Human

[Entrez Gene: 16668](#) Mouse

[Entrez Gene: 294853](#) Rat

[Omim: 148070](#) Human

[SwissProt: P05783](#) Human

[SwissProt: P05784](#) Mouse

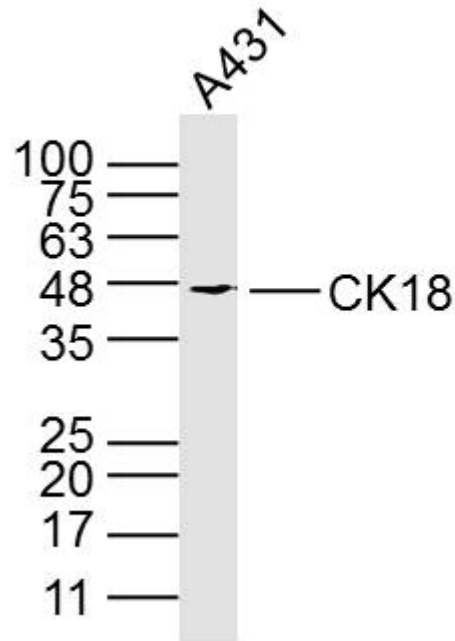
[SwissProt: Q5BJY9](#) Rat

[Unigene: 406013](#) Human

[Unigene: 22479](#) Mouse

[Unigene: 103924](#) Rat

**Product
Picture**



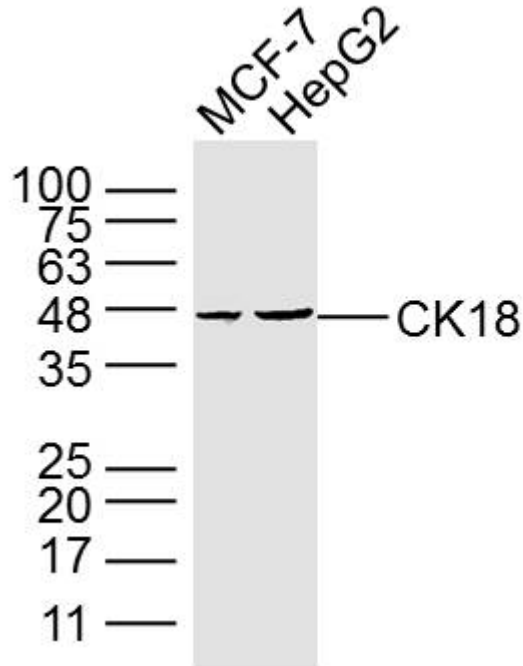
Sample: A431 Cell (Human) Lysate at 40 ug

Primary: Anti- CK18 (SLM-33101M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 48 kD



Sample:

MCF-7 Cell (Human) Lysate at 40 ug

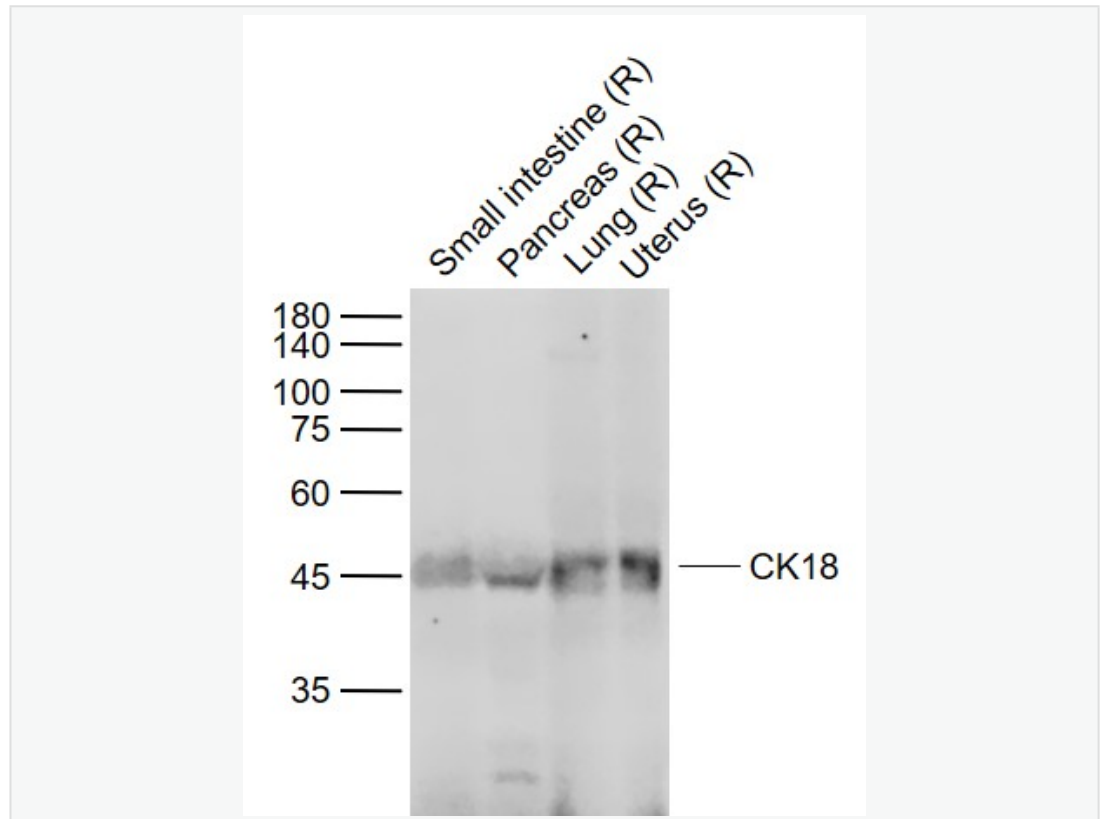
HepG2 Cell (Human) Lysate at 40 ug

Primary: Anti- CK18 (SLM-33101M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 48 kD



Sample:

Lane 1: Small intestine (Rat) Lysate at 40 ug

Lane 2: Pancreas (Rat) Lysate at 40 ug

Lane 3: Lung (Rat) Lysate at 40 ug

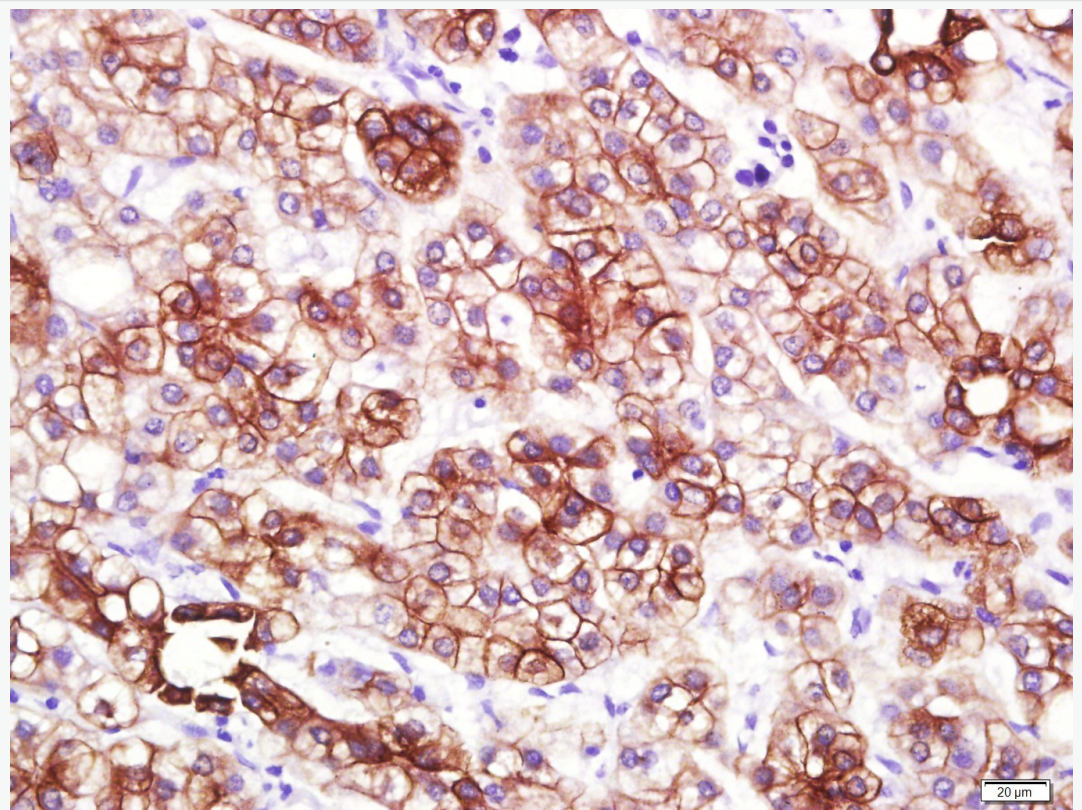
Lane 4: Uterus (Rat) Lysate at 40 ug

Primary: Anti-CK18 (SLM-33101M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 45 kD



Paraformaldehyde-fixed, paraffin embedded (Human liver cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CK18) Monoclonal Antibody, Unconjugated (SLM-33101M) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.