



Cytokeratin 7 Polyclonal Antibody

Catalog No	YP-Ab-03119
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	KRT7
Immunogen	The antiserum was produced against synthesized peptide derived from human Keratin 7. AA range:420-469
Specificity	Cytokeratin 7 Polyclonal Antibody detects endogenous levels of Cytokeratin 7 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KRT7;CK 7;CK7;CK-7;Cytokeratin;Keratin;Cytokeratin 7;Keratin type II cytoskeletal 7;SCL;type II cytoskeletal 7;Cytokeratin-7;Keratin-7;K7;Sarcolectin; Type-II keratin Kb7
Observed Band	51kD
Calculated Molecular Weight	51kD
Cell Pathway	Cytoplasm .
Tissue Specificity	Expressed in cultured epidermal, bronchial and mesothelial cells but absent in colon, ectocervix and liver. Observed throughout the glandular cells in the junction between stomach and esophagus but is absent in the esophagus.
Function	function:Blocks interferon-dependent interphase and stimulates DNA synthesis in cells. Involved in the translational regulation of the human papillomavirus type 16 E7 mRNA (HPV16 E7).,induction:Up-regulated by retinoic acid.,mass spectrometry: PubMed:11840567,miscellaneous:There are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa).,PTM:Arg-20 is dimethylated, probably to asymmetric



dimethylarginine.,similarity:Belongs to the intermediate filament family.,
subunit:Heterotetramer of two type I and two type II keratins. Interacts with
eukaryotic translation initiator factor 3 (eIF3) subunit EIF3S10 and with HPV16
E7.,tissue specificity:Expressed in cultured epidermal, bronchial and mesothelial
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Background

keratin 7(KRT7) Homo sapiens The protein encoded by this gene is a member
of the keratin gene family. The type II cytokeratins consist of basic or neutral
proteins which are arranged in pairs of heterotypic keratin chains coexpressed
during differentiation of simple and stratified epithelial tissues. This type II
cytokeratin is specifically expressed in the simple epithelia lining the cavities of
the internal organs and in the gland ducts and blood vessels. The genes
encoding the type II cytokeratins are clustered in a region of chromosome 12q12-
q13. Alternative splicing may result in several transcript variants; however, not
all variants have been fully described. [provided by RefSeq, Jul 2008],

matters needing attention

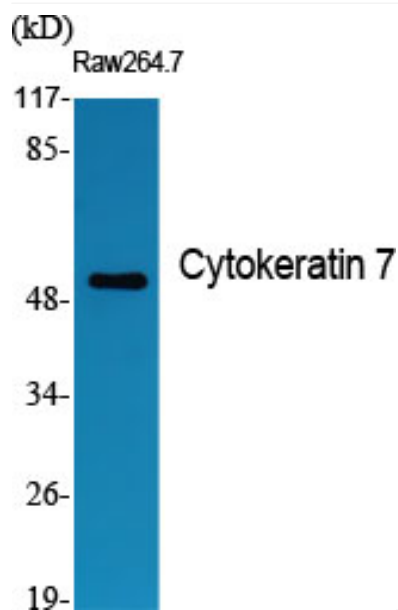
Avoid repeated freezing and thawing!

Usage suggestions

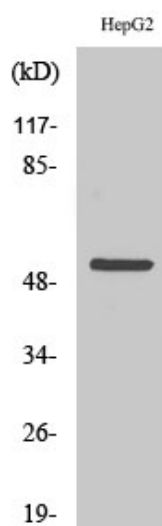
This product can be used in immunological reaction related experiments. For
more information, please consult technical personnel.



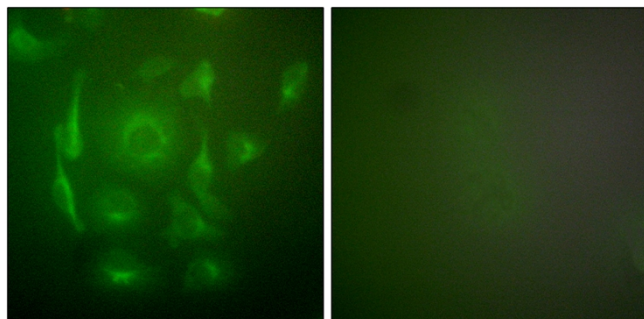
Products Images



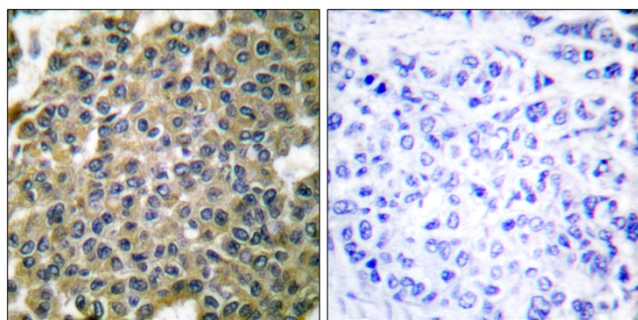
Western Blot analysis of various cells using Cytokeratin 7 Polyclonal Antibody diluted at 1:1000



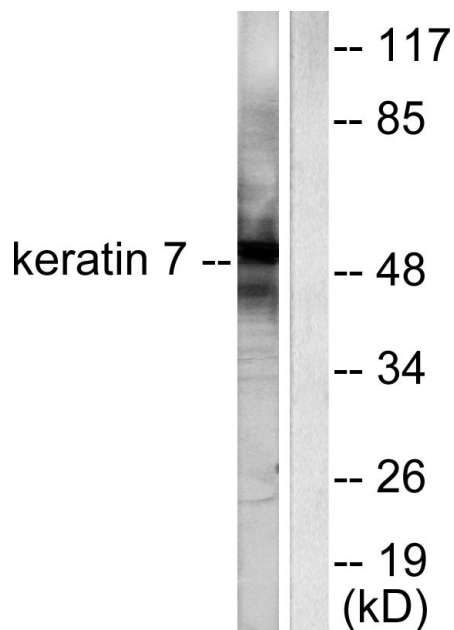
Western Blot analysis of HepG2 cells using Cytokeratin 7 Polyclonal Antibody diluted at 1:1000



Immunofluorescence analysis of HepG2 cells, using Keratin 7 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Keratin 7 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2 cells, using Keratin 7 Antibody. The lane on the right is blocked with the synthesized peptide.