

Cytokeratin 7 Polyclonal Antibody

Catalog No :	YT1272
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	Cytokeratin 7
Gene Name :	KRT7
Protein Name :	Keratin type II cytoskeletal 7
Human Gene Id :	3855
Human Swiss Prot No :	P08729
Mouse Swiss Prot No :	Q9DCV7
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
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 51kD

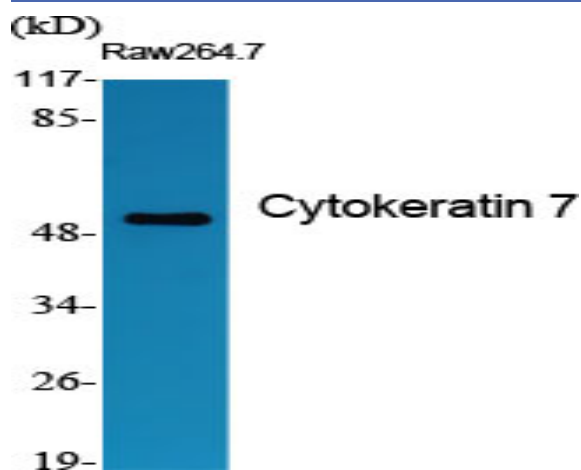
Background : keratin 7(KRT7) Homo sapiens The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial 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],

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 cells but absent in colon, ectocervix and liver. Observed throughout the glandular cells in the junction between stomach and esophagus bu

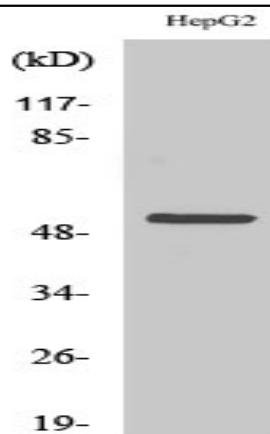
Subcellular Location : Cytoplasm .

Expression : 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.

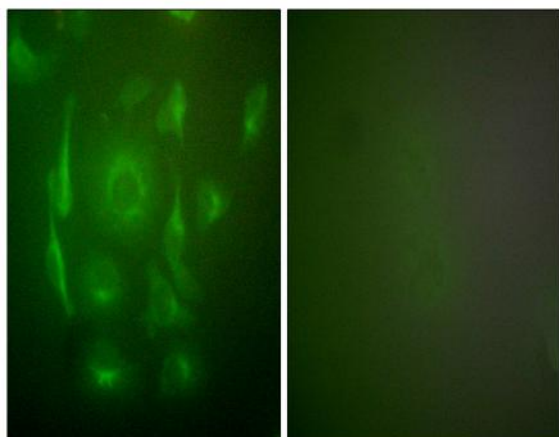
Products Images



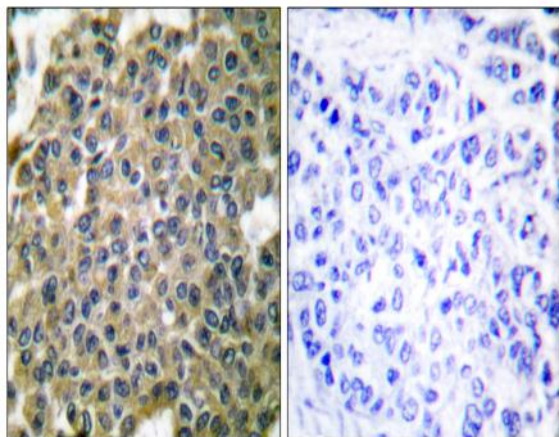
Western Blot analysis of various cells using Cytokeratin 7 Polyclonal Antibody diluted at 1:1000



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.