

ARG55964 anti-Cytokeratin 14 antibody [LL002]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [LL002] recognizes Cytokeratin 14
Tested Reactivity	Hu, Ms, Rat, Dog, Elp, Pig
Tested Application	FACS, ICC/IF, IHC-Fr, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	LL002
Isotype	IgG3
Target Name	Cytokeratin 14
Species	Human
Immunogen	A 15-mer synthetic peptide from the C-terminus of Human Cytokeratin 14.
Conjugation	Un-conjugated
Alternate Names	K14; CK-14; Cytokeratin-14; Keratin, type I cytoskeletal 14; EBS3; EBS4; NFJ; Keratin-14; CK14

Application Instructions

Application table	Application	Dilution
	FACS	0.5 - 1 µg/10 ⁶ cells
	ICC/IF	1 - 2 µg/ml
	IHC-Fr	1:20 - 300
	IHC-P	1 - 2 µg/ml
	WB	0.5 - 1 µg/ml
Application Note	Antigen retrieval for IHC-P: Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 53 kDa	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA
Preservative	0.05% Sodium azide

Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

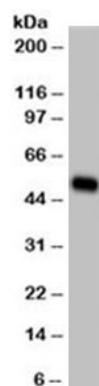
Gene Symbol	KRT14
Gene Full Name	keratin 14, type I
Background	This gene encodes a member of the keratin family, the most diverse group of intermediate filaments. This gene product, a type I keratin, is usually found as a heterotetramer with two keratin 5 molecules, a type II keratin. Together they form the cytoskeleton of epithelial cells. Mutations in the genes for these keratins are associated with epidermolysis bullosa simplex. At least one pseudogene has been identified at 17p12-p11. [provided by RefSeq, Jul 2008]
Function	The nonhelical tail domain is involved in promoting KRT5-KRT14 filaments to self-organize into large bundles and enhances the mechanical properties involved in resilience of keratin intermediate filaments in vitro. [UniProt]
Calculated Mw	52 kDa
PTM	A disulfide bond is formed between rather than within filaments and promotes the formation of a keratin filament cage around the nucleus. Ubiquitinated by the BCR(KLHL24) E3 ubiquitin ligase complex.
Cellular Localization	Cytoplasmic

Images



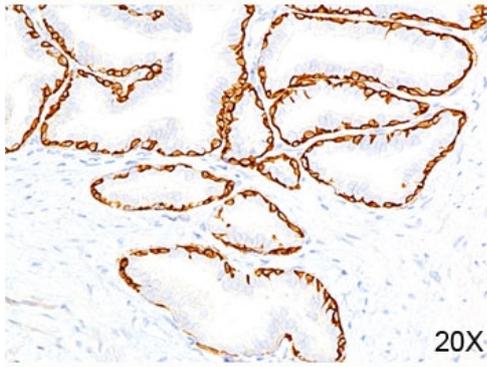
ARG55964 anti-Cytokeratin 14 antibody [LL002] IHC-P image

Immunohistochemistry: Human prostate (10X) stained with ARG55964 anti-Cytokeratin 14 antibody [LL002].



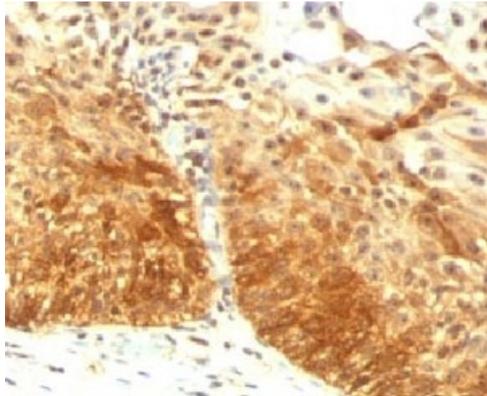
ARG55964 anti-Cytokeratin 14 antibody [LL002] WB image

Western blot: A431 cell lysate (epidermoid carcinoma) stained with ARG55964 anti-Cytokeratin 14 antibody [LL002] at 1 µg/ml dilution.



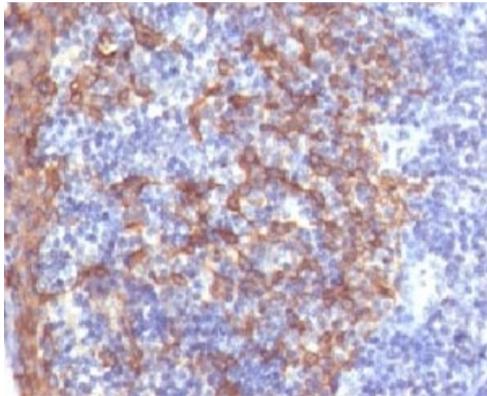
ARG55964 anti-Cytokeratin 14 antibody [LL002] IHC-P image

Immunohistochemistry: Human prostate (20X) stained with ARG55964 anti-Cytokeratin 14 antibody [LL002].



ARG55964 anti-Cytokeratin 14 antibody [LL002] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human prostate stained with ARG55964 anti-Cytokeratin 14 antibody [LL002].



ARG55964 anti-Cytokeratin 14 antibody [LL002] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human prostate stained with ARG55964 anti-Cytokeratin 14 antibody [LL002].
