

Recombinant Human Keratin 8

Cat. No. KRT8-1247H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanKRT8 is a single, non-glycosylated polypeptide chain.
Species	Human
Source	E.coli
Description	KRT8 also known ascytokeratin-8 (CK-8) or keratin-8 (K8) is a keratin protein that in human isencoded by the KRT8 gene. It is often paired with keratin 18. KRT8 can beused to differentiate lobular carcinoma of the breast from ductal carcinomaof the breast. KRT8 is often used together with keratin 18 and keratin 19 todifferentiate cells of epithelial origin from hematopoietic cells in teststhat enumerate circulating tumor cells in blood.
Form	Lyophilized from a sterile filtered solution containing 30 mM Tris-HCl, pH 8.0 + 9.5 M urea + 2mM DTT + 2 mM EDTA + 10 mM methylammonium chloride.
MolecularWeight	53.5 kDa
Purity	> 95% asdetermined by RP-HPLC and SDS-PAGE analyses
Endotoxin Level	< 0.1 ng/g ofKRT8
Reconstitution	Centrifuge vialprior to opening. First add sterile distilled water to the vial to fully solubilizethe protein to a concentration not less than 100 g/ml. After complete solubilizationof the protein, it can be further diluted to other aqueous solutions.

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Storage Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.

Official Symbol KRT8

GENE INFORMATION

Gene Name KRT8 keratin 8 [Homo sapiens]

Synonyms KRT8; keratin 8; K8; KO; CK8; CK-8; CYK8; K2C8; CARD2; keratin, type II cytoskeletal 8; Type-II keratin Kb8; keratin-8; Keratin-8; cytokeratin 8; cytokeratin-8; OTTHUMP00000242366; OTTHUMP00000242367; OTTHUMP00000242368; OTTHUMP00000242369; OTTHUMP00000242370; type-II keratin Kb8

Gene ID 3856

mRNA Refseq NM_002273

Protein Refseq NP_002264

MIM 148060

UniProt ID P05787

Chromosome Location 12q13

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Pathway	EGFR1 SignalingPathway; Signaling mediated by p38-alpha and p38-beta
Function	protein binding;structural molecule activity

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