

Human Cytokeratin 7 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 3140B Catalog Number: MAB11701

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects a synthetic peptide specific for human Cytokeratin 7 around amino acid 460 in Direct ELISA.
Source	Recombinant Monoclonal Rabbit IgG Clone # 3140B
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic Peptide Accession # P08729
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

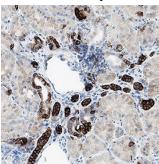
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
	Recommended Concentration	Sample		
Western Blot	0.5 μg/mL	HCT-116 human colorectal carcinoma cell line		
Immunocytochemistry	1-10 μg/mL	Immersion fixed SK-BR-3 human breas cancer cell line		
Immunohistochemistry	1-10 μg/mL	Immersion fixed paraffin-embedded sections of human kidney and placenta		
Simple Western	10 μg/mL	KATO-III human gastric carcinoma cell line		

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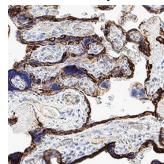
DATA

Immunohistochemistry



Detection of Cytokeratin 7 in Human Kidney. Cytokeratin 7 was detected in immersion fixed paraffin-embedded sections of human kidney using Rabbit Anti-Human Cytokeratin 7 Monoclonal Antibody (Catalog # MAB11701) at 3 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003) or the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the cytoplasm. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Immunohistochemistry

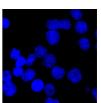


Detection of Cytokeratin 7 in Human Placenta, Cytokeratin 7 was detected in immersion fixed paraffin-embedded sections of human placenta using Rabbit Anti-Human Cytokeratin 7 Monoclonal Antibody (Catalog # MAB11701) at 3 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003) or the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the cytoplasm. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Immunocytochemistry



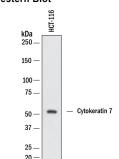




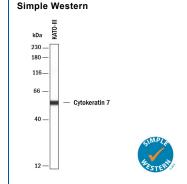
Negative (K562 cells)

Detection of Cytokeratin 7 in SK-BR-3 cells. Cytokeratin 7 was detected in immersion fixed SK-BR-3 human breast cancer cell line (Positive) and absent in K562 human chronic myelogenous leukemia cell line (Negative) using Rabbit Anti-Human Cytokeratin 7 Monoclonal Antibody (Catalog # MAB11701) at 3 µg/ml for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to the cytoskeleton. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.





Detection of Human Cytokeratin 7 by Western Blot. Western Blot shows Ivsates of HCT-116 human colorectal carcinoma cell line. PVDF membrane was probed with 0.5 μg/ml of Rabbit Anti-Human Cytokeratin 7 Monoclonal Antibody (Catalog # MAB11701) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Cytokeratin 7 at approximately 52 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.



Detection of Human Cytokeratin 7 by Simple Western™. Simple Western lane view shows lysates of KATO-III human gastric carcinoma cell line, loaded at 0.1 mg/ml. A specific band was detected for Cytokeratin 7 at approximately 56 kDa (as indicated) using 10 µg/ml of Rabbit Anti-Human Cytokeratin 7 Monoclonal Antibody (Catalog # MAB11701) followed by HRPconjugated Goat Anti-Rabbit Secondary Antibody (Catalog # 042-206). This experiment was conducted under reducing conditions and using the 12-230kDa separation system.

Rev. 5/22/2025 Page 2 of 3



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PREPARATION AND STORAGE		
Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.	
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.	

BACKGROUNE

Cytokeratin 7 is a 51 kDa type II keratin and a member of the keratin gene family. Cytokeratin 7 is specifically expressed in the simple epithelia lining the cavities of the internal organs and in the gland ducts and blood vesicles. It is found in simple glandular epithelia and in transitional epithelium. Combined with cytokeratin-20, cytokeratin-7 is often used for assessing the origin of metastatic cancer.

References:

- Schweizer J, Bowden PE, Coulombe PA, Langbein L, Lane EB, Magin TM, Maltais L, Omary MB, Parry DA, Rogers MA, Wright MW. New consensus nomenclature for mammalian keratins. J Cell Biol. 2006 Jul 17;174(2):169-74. doi: 10.1083/jcb.200603161. Epub 2006 Jul 10. PMID: 16831889; PMCID: PMC2064177.
- Dum D, Menz A, Völkel C, De Wispelaere N, Hinsch A, Gorbokon N, Lennartz M, Luebke AM, Hube-Magg C, Kluth M, Fraune C, Möller K, Bernreuther C, Lebok P, Clauditz TS, Jacobsen F, Sauter G, Uhlig R, Wilczak W, Steurer S, Minner S, Marx AH, Simon R, Burandt E, Krech T. Cytokeratin 7 and cytokeratin 20 expression in cancer: A tissue microarray study on 15,424 cancers. Exp Mol Pathol. 2022 Jun;126:104762. doi: 10.1016/j.yexmp.2022.104762. Epub 2022 Apr 4. PMID: 35390310.

Rev. 5/22/2025 Page 3 of 3

China | info.cn@bio-techne.com TEL: 400.821.3475