

DESCRIPTION

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| 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 |
| Conjugate | Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

APPLICATIONS

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.

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| Western Blot | Optimal dilution of this antibody should be experimentally determined. |
| Immunocytochemistry | Optimal dilution of this antibody should be experimentally determined. |
| Immunohistochemistry | Optimal dilution of this antibody should be experimentally determined. |

PREPARATION AND STORAGE

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| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied |

BACKGROUND

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, Gorbokov 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.

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