

Product datasheet for **TA399822**

Rabbit Monoclonal Antibody [Clone ID: COU-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	COU-1
Applications:	ELISA, ICC, IHC, WB
Reactivity:	Human
Modifications:	This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgM format for improved compatibility with existing reagents assays and techniques.
Host:	Rabbit
Isotype:	IgG, kappa
Clonality:	Monoclonal
Immunogen:	The original antibody was generated by fusing the human lymphoblastoid cell line WI-L2-729-HF2 with lymphocytes obtained from mesenteric lymph nodes from a colon cancer patient.
Specificity:	This antibody binds modified forms of human cytokeratin 8 and cytokeratin 18. It is reported that this antibody recognizes an intracellularly located cytokeratin protein that is strongly expressed in adenocarcinomas.

This antibody reacted with a panel of colon cancer cell lines and melanoma cell lines in a immunocytochemical assay. This antibody strongly reacted with antigens expressed on autologous and allogeneic colorectal cancers in an immunohistochemical analysis of formalin-fixed paraffin-embedded tissues (PMID: 3699931). Electron microscopy of colonic adenocarcinoma cells, intact tumor and colonic epithelium by the immunogold technique demonstrated that the C-OU1 antibody reacted with a molecule associated with areas of disruption of the intermediate filaments in the cytoplasm of the tumor cells (PMID: 1607210). This antibody can also recognize modified cytokeratin from tumor extracts in a western blot (PMID: 1607210). This binding of this antibody to different recombinant heterotypic K8/K18 complexes was determined by ELISA. This antibody cannot bind K8(1-65)/intact K18 and intact K8(1-85)/intact K18 complexes in an ELISA (US20050048070). 131 Iodine labeled COU-1 antibody was also used in the detection and localization of tumors using immunoscintigraphy (PMID: 8306271; 8261404). The binding of this antibody to modified cytokeratin expressed on the surface of carcinoma cells causes their endocytosis, demonstrating that modified cytokeratin may serve as potential targets for delivery of immunoconjugates into cancerous cells (PMID: 9223323).



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Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
Database Link:	P05787 ; P05783
Synonyms:	B9165; Cell proliferation-inducing gene 46 protein; COU1; CYK8; CYK18; Cytokeratin-8; Cytokeratin-18; ECACC 87040201; Keratin type I cytoskeletal 18; Keratin type II cytoskeletal 8; KRT8; KRT18; Type-II keratin Kb8