

# Cytokeratin Pan Type I/II Antibody Cocktail

Catalog Number MA5-13156

Product Data Sheet

Details		Species Reactivity	
Size	500 µL	Tested species reactivity	Bovine, Chicken, Human, Mouse, Non-human primate, Rabbit, Rat
Host / Isotype	Mouse IgG1	Published Species Reactivity	Chicken, Fish, Human, Mouse, Not Applicable, Non-human primate, Ovine, Rat, Zebrafish
Class	Cocktail	Tested Applications	Dilution *
Type	Antibody	Immunocytochemistry (ICC)	Assay Dependent
Clone	AE1/AE3	Immunofluorescence (IF)	Assay Dependent
Immunogen	Human epidermal keratin	Immunohistochemistry (Paraffin) (IHC (P))	1:50
Conjugate	Unconjugated	Western Blot (WB)	1:1000-1:5000
Form	Liquid	Published Applications	
Concentration	0.2mg/mL	Immunohistochemistry (IHC)	See 66 publications below
Purification	Protein G	Immunofluorescence (IF)	See 17 publications below
Storage Buffer	PBS, pH 7.4, with 0.2% BSA	Immunohistochemistry (Paraffin) (IHC (P))	See 11 publications below
Contains	0.09% sodium azide	Immunocytochemistry (ICC)	See 8 publications below
Storage Conditions	4° C	Western Blot (WB)	See 2 publications below
		Miscellaneous (Misc)	See 1 publications below

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

## Product Specific Information

MA5-13156 targets Cytokeratin Pan in WB, IF and IHC (P) applications and shows reactivity with Bovine, Chicken, Human, mouse, Non-human primate, Rabbit, and Rat samples. This antibody is not suitable for PC12 cells in IF or WB applications.

The MA5-13156 immunogen is human epidermal keratin.

This antibody detects the acidic and basic (Type I and II) cytokeratins: Cytokeratin 1, Cytokeratin 2, Cytokeratin 3, Cytokeratin 4, Cytokeratin 5, Cytokeratin 6, Cytokeratin 7, Cytokeratin 8, Cytokeratin 10, Cytokeratin 14, Cytokeratin 15, Cytokeratin 16 and Cytokeratin 19.

## Background/Target Information

Cytokeratin pan is part of a subfamily of intermediate filament proteins that are characterized by remarkable biochemical diversity, and represented in human epithelial tissues by at least 20 different polypeptides. Cytokeratins range in molecular weight between 40 kDa- 68 kDa, and an isoelectric pH between 4.9-7.8. The individual human cytokeratins are numbered 1 to 20. The various epithelia in the human body usually express cytokeratins which are not only characteristic of the type of epithelium, but also related to the degree of maturation or differentiation within an epithelium. Cytokeratin subtype expression patterns are used to an increasing extent in the distinction of different types of epithelial malignancies. The cytokeratin antibodies are not only of assistance in the differential diagnosis of tumors using immunohistochemistry on tissue sections, but are also a useful tool in cytopathology and flow cytometric assays. The composition of cytokeratin pairs vary with the epithelial cell type, stage of differentiation, cellular growth environment, and disease state. Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis.

*For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.*

**For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.**

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.