

## Cytokeratin 9 Conjugated Antibody

Catalog No: #C49191



Package Size: #C49191-AF350 100ul #C49191-AF405 100ul #C49191-AF488 100ul  
 #C49191-AF555 100ul #C49191-AF594 100ul #C49191-AF647 100ul  
 #C49191-AF680 100ul #C49191-AF750 100ul #C49191-Biotin 100ul

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## Description

Product Name	Cytokeratin 9 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	CK 9 antibody CK-9 antibody Cytokeratin 9 antibody Cytokeratin-9 antibody Cytokeratin9 antibody EPPK antibody K1C9_HUMAN antibody K9 antibody Keratin 9 antibody Keratin antibody Keratin type I cytoskeletal 9 antibody Keratin-9 antibody Keratin9 antibody KRT 9 antibody Krt9 antibody Spermatid Perinuclear Ring Manchette Protein K9 antibody type I cytoskeletal 9 antibody
Accession No.	Swiss-Prot#:P35527
Uniprot	P35527
GeneID	3857;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	62 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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## Background

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Cytokeratins comprise a diverse group of intermediate filament proteins that are expressed as pairs in both keratinized and non-keratinized epithelial tissue. Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells. Cytokeratin 9 is an unusually large, type I acidic cytokeratin that differentiates human plantar and palmar epidermal cells. Cytokeratin 9 localizes to the suprabasal layers as well as the upper epidermal layers such as the glandular ridges and interridges. The domains of cytokeratin 9 include a head, an  $\alpha$ -helical coiled-coil-forming rod, and a tail; cytokeratin 9 shares significant homology with cytokeratin 10. Mutations in the cytokeratin 9 gene correlate with the development of epidermolytic palmoplantar keratoderma (EPPK), an autosomal dominant inherited skin disorder that is characterized by hyperkeratosis of the skin over the palms and soles.

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Note: This product is for in vitro research use only