

Recombinant Cytokeratin 14 (KRT14) (Squamous Cell Marker) Antibody

Rabbit Monoclonal Antibody [Clone MSVA-614R]

Catalog No	Format	Size
3861-RBM38-P0	Purified Ab with BSA and Azide	20 ug
3861-RBM38-P1	Purified Ab with BSA and Azide	100 ug

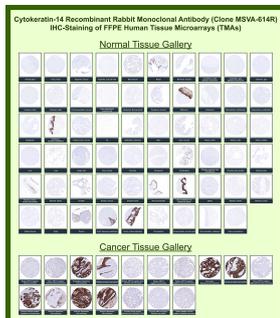
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1:100-1:200	Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121°C in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:100 at 37°C for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Product Details

Clone	MSVA-614R
Immunogen	Recombinant human KRT14 fragment (around aa350-472) (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	~50kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	Tonsil: A strong KRT14 immunostaining should be seen in the surface and crypt epithelium.

*Optimal dilution for a specific application should be determined.

Product Images for Recombinant Cytokeratin 14 (KRT14) (Squamous Cell Marker) Antibody



Keratin, type I cytoskeletal 14 Rabbit Recombinant Monoclonal Antibody (MSVA614R) tested on many normal and cancer tissues. The immunohistochemistry staining in these tissues aligns with the expression data in Human Protein Atlas.

Specificity & Comments

Cytokeratin 14 is a member of the type I keratin family of intermediate filament proteins. It always pairs with the type II keratin K5 and form the primary keratin pair of the keratinocytes of stratified squamous epithelia, including the epidermis as well as mucosal non-keratinizing stratified squamous epithelia. Cytokeratin 14 is strongly expressed in the undifferentiated basal cell layer containing the stem cells and are down-regulated in the differentiating suprabasal cell layers. Otherwise, in the widely well stratified follicular outer root sheath, cytokeratin 14 is uniformly expressed throughout all layers. The expression spectrum of cytokeratin 14 in tumors corresponds well to the patterns in normal epithelia. Thus, most squamous cell carcinomas as well as malignant mesotheliomas strongly express this keratin whereas little, focal, or no expression is found in adenocarcinomas. Cytokeratin 14 may be a useful marker in the differential diagnosis of squamous cell carcinoma from other epithelial tumors. Recent studies also indicate that CK14 expression in breast cancer corresponded with poor clinical outcome and that CK14 may have diagnostic value in the sub-classification of NSCLC.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

Ab produced in HEK293 cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Basal Cell Marker, Developmental Biology
