



# Rabbit Anti-Human KRT14 Monoclonal Antibody, clone CQ7163 (CABT-Z223R)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	Synthetic peptide corresponding to cytokeratin 14 residues within aa372-472 of cytokeratin 14 was used as an immunogen.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	CQ7163
<b>Purification</b>	ProA affinity purified IgG.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-P Recommended concentration: IHC-P: 1:100-1:200
<b>Molecular Weight</b>	52 kDa
<b>Cellular Localization</b>	Cytoplasm
<b>Positive Control</b>	Esophagus
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	100 µl

<b>Buffer</b>	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.
<b>Preservative</b>	0.01% Sodium azide
<b>Storage</b>	Store at -20 °C. Avoid freeze/thaw cycles.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	<p>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.</p> <p>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.</p> <p>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.</p>
<b>Keywords</b>	KRT14; keratin 14; K14; NFJ; CK14; EBS3; EBS4; keratin, type I cytoskeletal 14; CK-14; keratin14; cytokeratin 14; cytokeratin-14; keratin 14 (epidermolysis bullosa simplex, Dowling-Meara, Koebner)

## GENE INFORMATION

<b>Gene Name</b>	KRT14
<b>Entrez Gene ID</b>	<a href="#">3861</a>
<b>UniProt ID</b>	<a href="#">P02533</a>