



Rabbit Anti-Human EPCAM Monoclonal Antibody, clone CQ7167 (CABT-Z226R)

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

PRODUCT INFORMATION

Immunogen	Synthetic peptide corresponding to EpCAM residues within aa1-100 of EpCAM was used as an immunogen.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	CQ7167
Purification	ProA affinity purified IgG.
Conjugate	Unconjugated
Applications	IHC-P Recommended concentration: IHC-P: 1:100-1:200
Molecular Weight	35 kDa
Cellular Localization	Membrane
Positive Control	Colon
Format	Liquid
Concentration	Lot specific
Size	100 µl

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

BACKGROUND

Introduction	<p>Epithelial cell adhesion molecule (EpCAM) is a transmembrane glycoprotein, may act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providing immunological barrier as a first line of defense against mucosal infection. It plays a role in embryonic stem cells proliferation and differentiation, and it up-regulates the expression of FABP5, MYC and cyclins A and E.</p> <p>This glycoprotein is located on the cell membrane surface (preferentially basolaterally) and in the cytoplasm of virtually all epithelial cells with the exception of most squamous epithelia, hepatocytes, renal proximal tubular cells, gastric parietal cells and myoepithelial cells. However, focal positivity may be seen in the basal layer of squamous cell epithelium of endoderm (e.g., palatine tonsils) and mesoderm (e.g., uterine cervix). Normal mesothelial cells are EpCAM negative, but may express focal reaction when undergoing reactive changes. EpCAM has been seen in the majority of epithelial neoplasms, whereas most non-epithelial neoplasms do not show EpCAM expression.</p> <p>In conjunction with other markers, EpCAM can be used as an aid in determining neoplasms of epithelial origin, such as distinguishing between lung adenocarcinoma and mesothelioma.</p>
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Keywords	EPCAM; epithelial cell adhesion molecule; antigen identified by monoclonal AUA1 , M4S1, MIC18, TACSTD1, tumor associated calcium signal transducer 1; 17 1A; 323/A3; CD326; CO 17A; EGP 2; EGP34; EGP40
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GENE INFORMATION

Gene Name	EPCAM
Entrez Gene ID	4072
UniProt ID	P16422