Product Sheet

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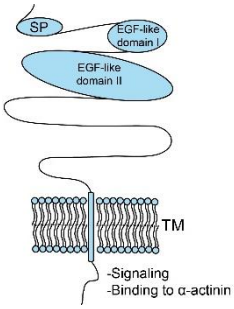
Epithelial cellular adhesion molecule (EpCAM)

Catalogue no.: Q66c
Clone name: QEP-3C7

Product: VHH directed against EpCAM
Target: Epithelial cellular adhesion molecule (EpCAM, UniProtKB P16422), also known as TROP-1, is a 40 kDa type I transmembrane glycoprotein involved in Ca2+-independent cell adhesion, signaling, migration and proliferation. EpCAM was originally identified as a tumor-associated antigen because of its expression in a large number of cancers. EpCAM is expressed in basolateral cell membranes of epithelial cells. The protein consists of an 242 amino acid ectodomain that contains a signal peptide (SP) and two EGF-like subdomains, a 23 amino acid transmembrane domain and a cytoplasmic domain of only 26 amino acids. The 2nd EGF-like domain is also referred to as a thyroglobulin-like domain. This cytoplasmic domain of EpCAM interacts directly with α-actinin of the actin cytoskeleton.[1-4]



Source: Recombinant monoclonal VHH (Llama glama), purified from S.cerevisiae using affinity chromatography. Immunization with cancer cells. Phage-display selection on recombinant protein using total elution.

Specificity: Human EpCAM.

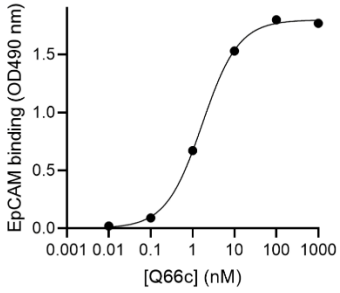
Formulation: 0.2 µm filtered solution in PBS. The products are equiped with a C-terminal C-Direct tag with an unpaired cysteine for directional conjugation.

Mol. Weight: 15.3 kDa
Ext. Coeff. (ε): 24535 M^{-1} cm^{-1}
A_{280} at 1g/L: 1.6

Storage: Shipped on blue ice. Store at 4˚C or -20˚C (aliquots). Addition of 0.02% sodiumazide is optional.

Applications: ELISA

Examples:



Binding of Q66c to recombinant EpCAM in ELISA.

References:
1 Huang et al. (2018) Int J Mol Med. 42, 1771-1785
2 Balzar et al. (1999) J Mol Med. 77, 699-712
3 Schnell et al. (2013) Biochim Biophys Acta. 1828, 1889-2001
4 Balzar et al. (1998) Mol Cell Biol. 18, 4833-4843