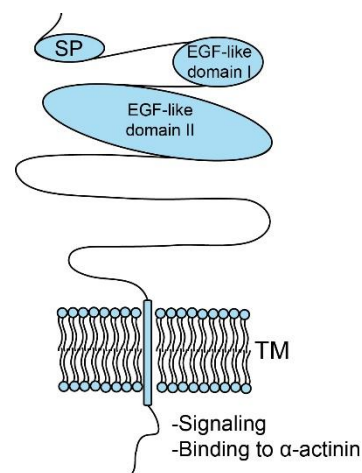


Epithelial cellular adhesion molecule (EpCAM)

Catalogue no.: Q66
Clone name: EpCAM
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.^{1,2,3} EpCAM was originally identified as a tumor-associated antigen because of its expression in a large number of cancers.¹ EpCAM is expressed in basolateral cell membranes of epithelial cells.² 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.³ The 2nd EGF-like domain is also referred to as a thyroglobulin-like domain.³ This cytoplasmic domain of EpCAM interacts directly with α -actinin of the actin cytoskeleton.³



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 μ m filtered solution in PBS.

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

Applications: ELISA, IF.

Products:

Cat. No.	Target	Tag	Label
Q66	DNABII	Tagless	No label
Q66c	DNABII	C-direct	No label
Q66c-lab	DNABII	C-direct	Biotin / NOTA / HiLyte488 / IRDye800CW

References:

- [Huang et al.](#) (2018) Int J Mol Med. 42, 1771-1785
- [Balzar et al.](#) (1999) J Mol Med. 77, 699-712
- [Schnell et al.](#) (2013) Biochim Biophys Acta. 1828, 1889-2001
- [Balzar et al.](#) (1998) Mol Cell Biol. 18, 4833-4843