Product Sheet

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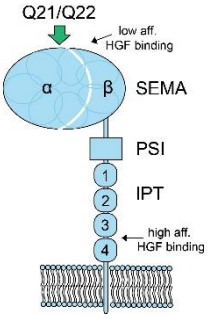
Hepatocyte Growth Factor Receptor (HGFR)/Met

Catalogue no.: Q22c
Clone name: QME-G2

Product: VHH directed against Met

Target: The hepatocyte growth factor receptor (HGFR, cMet or Met, UniProtKB P08581) is a single membrane spanning receptor tyrosine kinase that is activated by hepatocyte growth factor (also known as scatter factor). Met is expressed at the cell surface as a 195 kDa hetero-dimeric protein. The extracellular part of Met contains three domain types: an N-terminal 7-bladed β-propellor-like SEMA domain (semaphorin), a PSI domain (plexin, semaphorin, integrin-like) and four IPT-domains (immuno-globulin-like). Blades 2-3 of the SEMA domain and IPT 3-4 interact with its natural ligand HGF (see figure).[1-3]



Source: Recombinant monoclonal VHH (Llama glama), purified from S.cerevisiae using affinity chromatography. Immunization with A431 cells. Phage-display selection on captured HGFR ectodomain with total elution.

Specificity: Human HGFR/Met. Epitope: Blades 2-6 of the SEMA domain. Competes for HGF binding.[4]

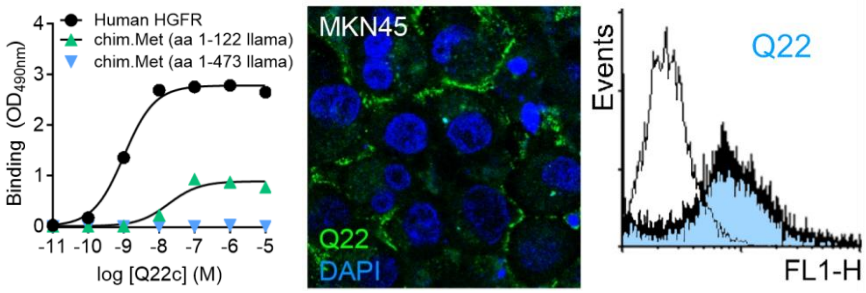
Formulation: 0.2 µm filtered solution in PBS. The products are equiped with a C-terminal C-Direct tag with an unpaired cysteine for directional conjugation.

Mol. Weight: 15.8 kDa
Ext. Coeff. (ε): 35535 M^{-1} cm^{-1}
A_{280} at 1g/L: 2.2

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

Applications: ELISA, IF, FACS, IP, IHC

Examples:



Binding of Q22c to either fully human HGFR/Met (black circles) or llama/human HGFR/Met chimera in ELISA. Binding of Q22-decorated albumin nanoparticles to MKN-45 cells. And binding of Q22 to A431 cells in FACS.[4]

References:

1 Cooper et al., (1984) Nature 311, 29-33,
2 Stamos et al., (2004), EMBO J 23, 2325-2335
3 Bradley et al, (2017), Nat Rev Clin Oncol 14. 562-576
4 Heukers et al., (2014) Biomaterials 35, 601-610