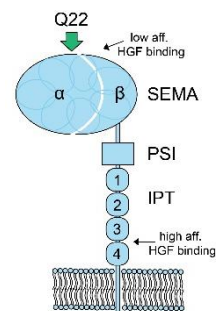


## Hepatocyte Growth Factor Receptor (HGFR)/Met

**Catalogue no.:** Q22  
**Clone name:** QME-G2  
**Product:** VHH directed against Hepatocyte Growth Factor Receptor (HGFR)/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).<sup>1</sup> 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  $\beta$ -propeller-like SEMA domain (semaphorin), a PSI domain (plexin, semaphorin, integrin-like) and four IPT-domains (immuno-globulin-like).<sup>2</sup> Blades 2-3 of the SEMA domain and IPT 3-4 interact with its natural ligand HGF (see figure).<sup>3</sup>



**Source:** Recombinant monoclonal VHH (*Llama glama*), purified from *S.cerevisiae* using affinity chromatography. Immunization with A431 cells.<sup>4</sup> Phage-display selection on captured HGFR ectodomain with total elution.<sup>4</sup>

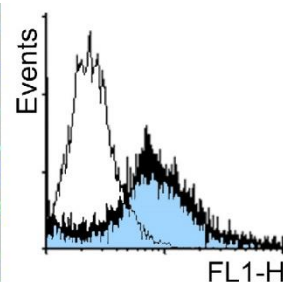
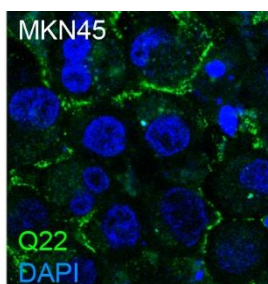
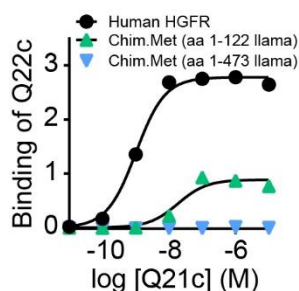
**Specificity:** Human HGFR/Met.  
 Epitope: Blades 2-6 of the SEMA domain. Competes for HGF binding.<sup>4</sup>

**Formulation:** 0.2  $\mu$ 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, 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.

### Products:

Cat. No.	Target	Tag	Label
Q22	HGFR/Met	Tagless	No label
Q22c	HGFR/Met	C-direct	No label
Q22c-lab	HGFR/Met	C-direct	Biotin / NOTA / HiLyte488 / IRDye800CW

### References:

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