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info@biotem.fr www.biotem-antibody.com **TECHNICAL DATASHEET**

Monoclonal Anti-**M13-KO7 Phage** (M13-KO7 Binding Domain – Fc – HRP)

Clone **8F6**

Ref # BIO.054.0

Product description

Description Anti-M13-KO7 Binding Domain – Fc – HRP

(Recombinant Antibody-Like Protein Fused to HRP)

Stoichiometry 2 x M13 binding domain (BD) / 1 x Fc / 2 x HRP

M13 BD to HRP ratio: 1/1 sharp

Specificity M13-KO7 Coat protein III (g3p)

Host species Mouse, γ1 isotype (Fc chain)

Tested application ELISA (1/100)

Cross reactivity Expected to bind to phage fd (g3p) and phage f1 (g3p) (not tested)



The M13 bacteriophages belong to a group of filamentous phages, and contain a genome of single-stranded DNA (ssDNA) that consists of 9 genes encoding different proteins. Five of these proteins are coat proteins, and the remaining six proteins are involved in replication and assembly of the phage. The most abundant of the coat proteins is the capsid protein G8P (3000 units). The remaining four coat proteins, G3P, G6P, G7P, and G9P, are each present in approximately five copies. The G3P protein is an essential coat protein, involved in the infection of Escherichia coli.

The M13-KO7 phage is used in various "phage display" methodologies and combinatorial DNA and peptide libraries, where antibody fragments can be fused to M13 coat protein pIII and displayed on phage using phagemid-based systems. The Biotem HRP conjugated 8F6 Anti-M13 pIII Monoclonal Antibody can be used to determine fusion protein expression levels both in E.coli and on the M13 virion by immunoblot analysis or to analyze the specificity of eluted phages from phage display screening process (ELISA-PHAGE).

Properties

Form Liquid
Volume 0.5 mL

Storage instructions Store at +4°C short term (1-2 month). Aliquot and store at -20°C or -80°C.

Avoid repeated freeze / thaw cycles

Storage buffer Filtrated CHO cell culture medium

Purity Not purified; supernatant

Clonality Monoclonal

Isotype Murine Fc (IgG1)

Restrictions For research use only. Not for use in diagnostic procedures.

Application

ELISA

- Usable for analysing phage display libraries (antibody, peptide etc.) with the expressed proteins fused to either the gene III or gene VIII protein of the filamentous phage (Use at an assay-dependent concentration)
- Usable as a reagent in "phage-ELISA" assays, offering sensitive and specific activity for detection of eluted recombinant phages (1/100 or use at an assaydependent concentration)