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Product Information

Anti-Human IgG Protein A scaffold

Cat. No.: **AFB-09LY**
This product is for research use only and is not intended for diagnostic use.

Product Overview

This Anti-IgG Protein A Scaffold Molecule is modified with a unique C-terminal cysteine for directed single-point chemical modification, facilitating labelling with fluorescent dyes, biotin or coupling to matrices. However, tail-to-tail dimers are spontaneously generated via a disulphide bridge between the C-terminal cysteines. Prior to coupling via the C-terminal the Protein A Scaffold Molecule needs to be reduced to expose the reactive cysteine residue. Recommended reducing condition is 20mM DTT at a pH above 7.5 and incubation at room temperature for 2 hours. Remove excess DTT by passage through a desalting column, not by dialysis.

Specific Activity

This product recognises the Fc part of IgG from several species with similar binding preferences as Protein A in terms of subclass specificities. This molecule binds with high affinity to human IgG of IgG1, IgG2 and IgG4 subclasses which comprise 92-98% o

Source

Display library

Species Reactivity

Human

Expression Host

E. coli

Storage

Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze/thaw cycles.

ANTIGEN GENE INFOMATION

Gene Name

IGHG1 immunoglobulin heavy constant gamma 1 (G1m marker) [Homo sapiens]

Official Symbol

IGHG1

Synonyms

immunoglobulin heavy constant gamma 1 (G1m marker); IGHG1; Ig gamma 1 chain C region; Immunoglobin heavy constant gamma 1; Immunoglobulin G; IgG

Gene ID

3500

MIM

147100

UniProt ID

P01857

Chromosome Location

14q32.33

Pathway

IL4-mediated signaling events.

Function

Antigen binding; protein binding.

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