

Catalogue No.

AB6430-100

Qty:

300 µg

mGarnet Polyclonal Antibody

Source: Goat

General description: Goat polyclonal antibody to mGarnet. mGarnet is a monomeric far-red fluorescent protein engineered from coral-derived fluorescent proteins, originating from the cnidarian *Entacmaea quadricolor*. It is designed as a bright and photostable reporter suitable for fusion tagging, live-cell imaging, and multicolor applications, particularly in the far-red spectrum. mGarnet is a basic (constitutively fluorescent) protein with improved maturation and stability compared to earlier variants. It typically exhibits a maximum excitation around ~598 nm and a maximum emission around ~670 nm. mGarnet-tagged proteins can be detected in Western blot at approximately 26–27 kDa plus the molecular weight of the fused protein. In immunofluorescence, antibody staining can enhance detection, particularly in fixed samples or low-expression systems. These antibodies are widely used in studies of protein localization, trafficking, and multiplex imaging, especially in combination with shorter-wavelength fluorophores for deep-tissue or low-background imaging applications.

Alternative names: mGarnet2, far-Red antibody

Form: Polyclonal antibody supplied as a 100 µl (3 mg/ml) aliquot in PBS, 20% glycerol and 0.05% sodium azide. This antibody is epitope-affinity purified from goat antiserum.

Immunogen: Affinity purified recombinant fluorescent protein produced in *E. coli*.

Specificity: In lysates of transfected cells with the plasmid containing the fluorescent sequence, detects the recombinant protein by Western blot.

Reactivity: Reacts with Transfected cells proteins

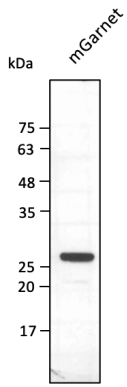
Sample	WB	IHC (F)	IHC (P)	IF	ELISA	IEM
Transfected cells	+++	ND	ND	ND	ND	ND

+++ excellent, ++ good, + poor, ND not determined

Usage:

Storage: Store at -20 C for long-term storage. Store at 2-8 C for up to one month.

Special instructions: Avoid freeze/thaw cycles..



Anti-mGarnet Ab at 1/2,500 dilution using HEK293 transfected cell lysates at 50 µg per lane; rabbit polyclonal to goat IgG (HRP) at 1/10,000 dilution;

For research use only, not for diagnostic use

SICGEN's Proprietary Immunogen Policy

In order to produce high specific antibodies SICGEN has invested a lot of time and effort into selecting immunogen sequences. SICGEN has decided to protect this information by not publishing it on the website. However, these sequences are available on request.