SICGEN ANTIBODIES

Product Data Sheet

Catalogue No.	Qty:
AB9088-100	300 µg

Anti-mScarlet

Source: Goat

General description: Goat polyclonal antibody to mScarlet (Scarlet fluorescent protein). mScarlet is a basic (constitutively fluorescent), monomeric engineered derivate of red fluorescent protein (RFP) isolated from members of the Discosoma (mushroom coral) family. mScarlet is a ~26.5 kDa protein that is optimally excited at a 569 nm and has a maximum of emission at 594 nm. It is used in research as a reporter to label and study the biology of the cell using a wide range of applications.

Alternative names: red fluorescent protein 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: Purified recombinant fluorescent protein produced in E. coli.

Specificity: In 293HEK cells transfected with cds plasmid detects a band of 26.5 kDa by Western blot. This antibody does not recognize GFP (green fluorescent protein).

Reactivity: Reacts with Transfected cells proteins

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

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

Usage:

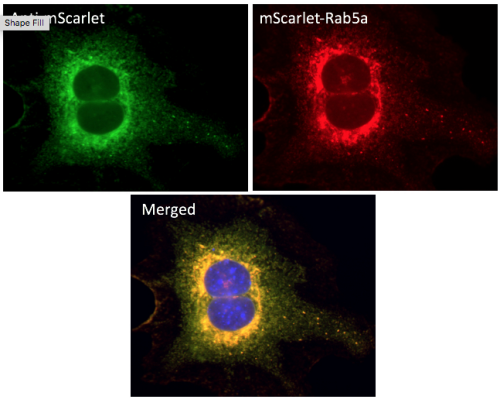
WB:	1:500-1:5,000
IHC (F):	1:50-1:500
IHC (P):	1:50-1:500
IF:	1:50-1:500
IEM:	1:50-1:500

Storage: For continuous use, store at 2-8 C for one-two days. For extended storage, store in -20 C freezer. Working dilution samples should be discarded if not used within 12 hours.

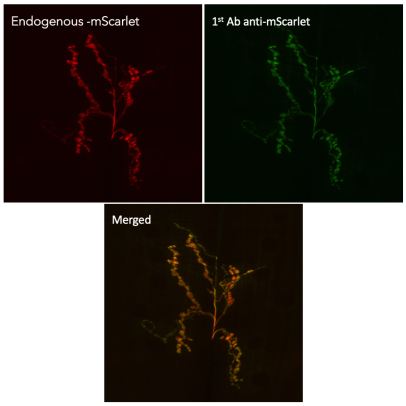
Special instructions: The antibody solution should be gently mixed before use..

References:

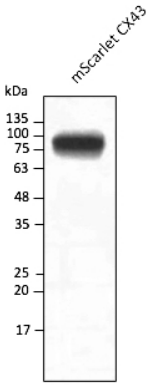
1. Saßmannshausen J, PhD Thesis, Bad Berleburg, Germany 2024



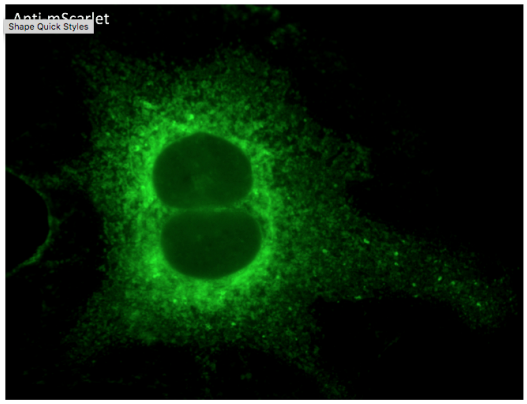
Immunofluorescence – anti-mScarlet Ab using hCEC cells transduced with mScarlet-Rab5a; cells were fixed with methanol and anti-mScarlet at 1/250;



Immunofluorescence in Drosophila larvae NMJ muscle 6/7 expressing mScarlet in neurons (DyGlutmScarlet) using 1st Ab anti-mScarlet at 1/1,000 and 2nd Ab anti-goat IgY conjugated to DyLight®488 at 1/500;



Anti-mScarlet 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;



Immunofluorescence – anti-mScarlet Ab using hCEC cells transduced with mScarlet-Rab5a; cells were fixed with methanol and anti-mScarlet at 1/250;

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.