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# **DATASHEET**

Janelia Fluor® 549 conjugation kit

### **Product overview**

Name Cat No Biological description Janelia Fluor® 549 conjugation kit HB9660

#### Overview

The Hello Bio Janelia Fluor® 549 conjugation kit allows the conjugation of antibodies and proteins to Janelia Fluor® 549 in as little at 90 minutes (15 minutes active time) with a high degree of labeling. There are many benefits of directly labeled proteins and antibodies such as:

- Much easier multiplexing no need to mix and match antibody species correctly
- Avoid non-specific binding by secondary antibodies
- Save time by shortening staining protocols.

#### Requirements

- Not compatible with BSA containing antibodies or proteins as this will reduce the taget labeling.
  These should be removed before processing.
- The protein to be labeled should be greater than 7kDa in size
- The antibody concentration should be at least 1mg/ml, lower concentrations can be used however this will effect the degree of labeling.

#### Pack size guidance

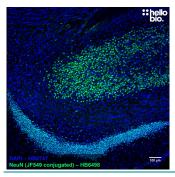
Please note:

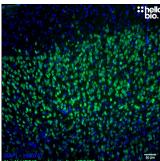
- The 2x50µg packsize is sufficient to carry out 2 conjugation reactions on 50µg protein each.
- The 3x100µg packsize is sufficent to carry out 3 conjugation reactions on 100µg protein each.

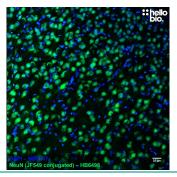
Kit for conjugation of antibodies and other proteins to Janelia Fluor® 549

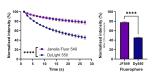
#### Description

### **Images**









### **Biological Data**

### **Application notes**

#### **Conjugation Protocol**

Please follow this link to the conjugation protocol. Conjugation takes around 90 minutes with only 15 minutes of active time.

# **Solubility & Handling**

Storage instructions Important +4°C, except HB7336 at -20°C. Protect dye from moisture and light.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

# **Chemical Data**

Kit contents

- Lyophilised Janelia Fluor dye
- DMSO
- Lyophilised conjugation buffer
- Lyophilised quenching buffer
- Protein storage buffer
- Microfuge desalting columns

# **References**

A general method to fine-tune fluorophores for live-cell and in vivo imaging.

Grimm JB et al (2017) Nature methods 14 **PubMedID** 28869757