Product Data Sheet
Alexa Fluor 488, Goat Anti Rat IgG (H+L) (min. X Hu, Ms)

Product name:	Alexa Fluor 488, Goat Anti Rat IgG (H+L) (min. X Hu, Ms)
Cat number:	IS20023-1
Size:	1 mg
Clone:	POLY
Concentration:	2mg/ml
Host:	Goat
Isotype:	IgG
Reactivity:	Rat
Applications:	Fluorescence microscopy: 1-2 ug/mL FC: 1 ug/106 cells Near-infrared western detection: 50-100 ng/mL
Purification:	Aff. Pur.
Form:	liquid
Buffer:	pH~7.4 PBS containing 50 mg/mL glycerol 2 mg/mL BSA (IgG-free and protease-free) and 0.0.5% sodium azide.
Storage:	Store at 4°C for several months. Protect from light. For longer storage, divide the conjugate into small aliquots and freeze at -20°C. Avoid repeated freezing and thawing.
Background:	Alexa Fluor dyes are superior to Cy dyes for antibody labeling by having combined advantages in brightness, photostability, specificity and novel features ideal for in vivo imaging. Alexa Fluor 488 is exceptionally bright and its fluorescence is insensitive to pH. Moreover, Alexa Fluor 488 is far more photostable than FITC or fluorescein. Alexa Fluor 488 is a better choice for instruments that use 470 nm blue light excitation and/or a fluorescence detection window that centers at a relatively shorter wavelength. For example, if your detection window is from 510 to 540 nm or centers at an even shorter wavelength, Alexa Fluor 488 would be a superior choice. The shorter wavelength of Alexa Fluor 488 offers the advantage of less fluorescence “spill over” in the red channel in multi-color detection applications. Antoher advantage of Alexa Fluor 488 labeled antibodies is their unrivaled specificity. These antibodies offer results in better signal to noise ratio in demanding applications such as tissue staining, cell staining.