# Product Information

## Bovine Anti-Goat IgG (H+L), Whole Antibody, CF® Dye Conjugates

| CF® Dye | Ex/Em | Catalog No. | Size |
|---|---|---|---|
| CF®488A | 490/515 nm | 20293-1 | 50 uL |
| | | 20293 | 500 uL |
| | | 20293-1mg | 1 mg (lyophilized) |
| CF®543 | 541/560 nm | 20313-1 | 50 uL |
| | | 20313 | 500 uL |
| | | 20313-1mg | 1 mg (lyophilized) |
| CF®568 | 562/583 nm | 20294-1 | 50 uL |
| | | 20294 | 500 uL |
| | | 20294-1mg | 1 mg (lyophilized) |
| CF®594 | 593/614 nm | 20295-1 | 50 uL |
| | | 20295 | 500 uL |
| | | 20295-1mg | 1 mg (lyophilized) |
| CF®633 | 630/650 nm | 20296-1 | 50 uL |
| | | 20296 | 500 uL |
| | | 20296-1mg | 1 mg (lyophilized) |
| CF®640R | 642/662 nm | 20297-1 | 50 uL |
| | | 20297 | 500 uL |
| | | 20297-1mg | 1 mg (lyophilized) |

### Concentration
Liquid format: 2 mg/mL in pH ~7.4 PBS containing 50% glycerol, 2 mg/ml bovine serum albumin (IgG-free and protease-free) and 0.05% sodium azide.

Lyophilized format (after reconstitution): 2 mg/mL in pH ~7.4 PBS containing 15 mg/mL bovine serum albumin (IgG-free and protease-free) and 20 mg/mL trehalose.

### Storage and Handling
Store at -20°C, protected from light. Product is stable for at least 6 months from date of receipt when stored as recommended. Liquid format antibodies contain 50% glycerol and will not freeze at -20°C.

Reconstitution (lyophilized format only): add 0.5 mL $dH_2O$ and mix gently to dissolve. Store at -20°C, protected from light. Aliquot to avoid freeze-thaw cycles. Alternatively, glycerol can be added to the antibody so that it will not freeze at -20°C: add 0.25 mL $dH_2O$ to the lyophilized antibody and mix gently to dissolve, then add 0.25 mL glycerol and mix well. Optional: a preservative may be added, such as 0.05% (final concentration) sodium azide.

Note: storage of the antibody for more than a day at final working dilution is not recommended.

### Product Description
Bovine anti-goat IgG (H+L), whole antibody is an affinity purified bovine antibody that recognizes goat IgG. To minimize cross-reactivity, the antibody is highly cross-adsorbed against bovine, chicken, guinea pig, horse, human, mouse, rabbit, rat, ans Syrian hamster serum proteins.

CF® dyes are superior to Alexa Fluor®, DyLight®, and Cy® dyes for antibody labeling by having combined advantages in brightness, photostability, specificity and novel features ideal for in vivo imaging. For more information about CF® dyes, download our CF® Dye Selection Guide at www.biotium.com.

### Recommended Dilution Range
Fluorescence microscopy: 1-2 ug/mL
Flow cytometry: 1 ug/$10^6$ cells
Near-infrared western detection: 50-100 ng/mL

These concentrations are provided as a starting point for optimization; appropriate dilutions should be determined empirically. Generally IgG conjugates are used in the range of 1-10 ug/mL.

For more detailed protocols for immunofluorescence staining for fluorescence microscopy, flow cytometry, or fluorescence-based western detection, please visit our website.

### Related Products

| Cat No. | Product Name |
|---|---|
| 23001 | EverBrite™ Mounting Medium |
| 23002 | EverBrite™ Mounting Medium with DAPI |
| 23003 | EverBrite™ Hardset Mounting Medium |
| 23004 | EverBrite™ Hardset Mounting Medium with DAPI |
| 23005 | CoverGrip™ Coverslip Sealant |
| 23007 | TrueBlack™ Lipofuscin Autofluorescence Quencher |
| 40061 | RedDot™2 Far Red Nuclear Counterstain |
| 22005 | Mini Super$^{HT}$ Pap Pen 2.5 mm tip, ~400 uses |
| 22006 | Super$^{HT}$ Pap Pen 4 mm tip, ~800 uses |
| 22003 | Mini-Cell Scrapers |
| 23006 | Flow Cytometry Fixation/Permeabilization Kit |
| 22015 | Fixation Buffer |
| 22016 | Permeabilization Buffer |
| 22017 | Permeabilization and Blocking Buffer |
| 22010 | 10X Fish Gelatin Blocking Agent |
| 22011 | Fish Gelatin Powder |
| 22014 | 30% Bovine Serum Albumin Solution |
| 22002 | Tween®-20 |

Please visit **www.biotium.com** to view our full selection of products featuring bright and photostable fluorescent CF® dyes, including Mix-n-Stain™ antibody labeling kits, primary antibody conjugates, streptavidin, phalloidin, and other bioconjugates, as well as conjugates of biotin, HRP, AP, R-PE, APC and PerCP.