#12949 Store at -20°C

Color-coded Prestained Protein Marker, High Range (43-315 kDa)

Small 250 µl
Petite 25 µl

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not For Use In Diagnostic Procedures.

Description: Color-coded Prestained Protein Marker, High Range (43-315 kDa) is a mixture of purified proteins, covalently coupled to blue, green, orange, or pink dyes, that resolves to 8 bands between 43 and 315 kDa when electrophoresed. The protein concentrations are carefully balanced for even intensity. The covalent coupling of dye to protein affects the electrophoretic mobility in SDS-PAGE gels relative to uncoupled proteins. The apparent molecular weights of the prestained proteins are shown in the image to the right.

Directions for Use:
Important: Do Not Boil Protein Marker

1. Thaw the protein ladder at room temperature.
2. Gently vortex solution to ensure the mixture is homogeneous.
3. Load the appropriate volume of the protein marker per lane, as specified below:

   Mini-Gel: 0.75-1.0 mm thick: load 10 µl
   1.5 mm thick: load 20 µl

   Large Gel: 0.75-1.0 mm thick: load 20 µl
   1.5 mm thick: load 40 µl

4. Unused ladder may be returned to -20°C for long-term storage.

Note on Apparent Molecular Weights:

The relative sizes of these protein markers may depend on the type of gel used and may appear different than expected. The coupling of a charged dye molecule to a protein marker alters the overall charge of the protein and will likely alter its mobility in an SDS polyacrylamide gel. The extent of this effect can vary with the properties of the gel type (e.g., Tris-glycine, Tris-Tricine, etc) used in the analysis. For this reason, the sizes of these marker proteins are expressed here as apparent molecular weights. For best results, we recommend using these prestained protein markers on a Tris-glycine SDS gel.

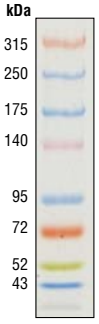

Image is from a 4-12% Tris-glycine gradient SDS-polyacrylamide gel.

Storage: Supplied in 62.5 mM Tris-H_3PO_4 (pH 7.5 at 25°C), 1 mM EDTA, 2% SDS, 10 mM DTT, 1 mM NaN_3 and 33% glycerol. Store at –20°C for up to one year.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebra fish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.