abcam

Product datasheet

Prestained Protein Ladder - Extra broad molecular weight (5 - 245 kDa) ab116029

1 Abreviews 3 References 2 Images

Overview

Product name	Prestained Protein Ladder - Extra broad molecular weight (5 - 245 kDa)
Tested applications	**Suitable for:** WB, SDS-PAGE
General notes	Prestained Protein Ladder ab116029 is a three-color protein standard with 13 pre-stained proteins covering a wide range molecular weights from 3.5 to 245 kDa. Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 25 kDa and 75 kDa respectively) when separated on SDS-PAGE (Tris-glycine buffer). This product is also sold by Expedeon, an Abcam company as RunBlue™ TriColor Prestained Protein Ladder: NXA6050. This product was previously called Prism Ultra Protein Ladder (3.5 - 245 kDa). This prestained protein ladder is designed for monitoring protein separation during SDS polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (PVDF, nylon, or nitrocellulose) and for approximating the size of proteins. The ladder is supplied in gel loading buffer and is ready to use. Do not heat, dilute, add reducing agent before loading. Key product features: **Broad range:** 3.5-245 kDa **Ready-to-use:** Supplied in a loading buffer for direct loading on gels. **Easy to identify:** Includes green ~25 kDa and red ~75kDa reference bands. **Sharp bands** **Recommended loading:** ~1.5 - 2.5µl **Review other protein ladders in the unstained and prestained protein ladder guide.**

Properties

Form	Liquid
Storage instructions	Store at +4°C short term (1-2 weeks). Store at -20°C.
Storage buffer	pH: 7.5 Constituents: 0.44% Tris citrate/phosphate, 0.02% Urea, 2% Sodium lauryl sulfate, 0.02% DTT, 15% Glycerol

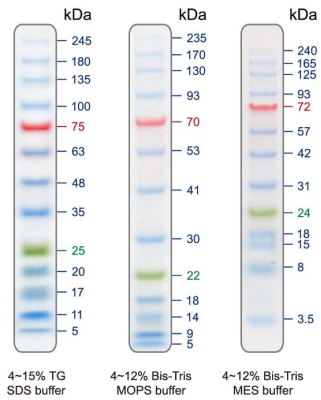
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab116029 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

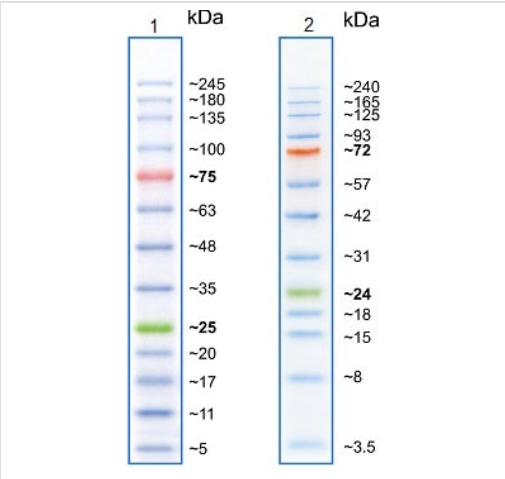
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. ~1.5-2.5 µl per well for general Western transferring. Apply more for thicker (> 1.5 mm) or larger gel.
SDS-PAGE		Use at an assay dependent concentration. 3 µl or 5 µl per loading for clear visualization during electrophoresis on 15-well or 10-well mini-gel, respectively.

Images



SDS-PAGE - Prestained Protein Ladder - Extra broad molecular weight (5 - 245 kDa) (ab116029)

Gel 1: Tris-Glycine (4-15%) SDS buffer; Gel 2: Bis-Tris (4-12%) MOPS buffer; Gel 3: Bis-Tris (4-12%) MES buffer. Pre-stained molecular weight standards have a differing mobility and as a consequence varying apparent molecular weight when run in distinct SDS-PAGE buffer systems. The variance in pH of alternative buffers affects the charge of the labelled protein standard and its binding capacity for SDS. The apparent molecular weight of this marker has been determined by calibration against an unstained ladder in each electrophoresis condition.



SDS-PAGE - Prestained Protein Ladder - Extra broad molecular weight (5 - 245 kDa) (ab116029)

Gel 1: Tris-Glycine (~4-20%), Gel 2: Bis-Tris (10%) MES buffer. Pre-stained molecular weight standards have a differing mobility and as a consequence varying apparent molecular weight when run in distinct SDS-PAGE buffer systems. The variance in pH of alternative buffers affects the charge of the labelled protein standard and its binding capacity for SDS. The apparent molecular weight of this marker has been determined by calibration against an unstained ladder in each electrophoresis condition.

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