

ChemiBlot™ Molecular Weight Markers

CATALOG NUMBER: 2230

LOT NUMBER:

QUANTITY: 5 vials x 40 µL/each

DESCRIPTION: The *ChemiBlot* Molecular Weight Markers is a mixture of artificial IgG-binding proteins with one to six times linearly repeated structure of domains A-B of Staphylococcal protein A [pA(AB)₁ to pA(AB)₆]¹ The six artificial proteins are separately synthesized by genetic engineered *E. coli* and are purified by affinity chromatography on an IgG column. This product shows six distinct bands on SDS-PAGE. The markers can be used for estimation of molecular weight on SDS-PAGE and as a positive control for Western blot³.

MOLECULAR WEIGHTS: 14,800, 28,201, 41,603, 55,004, 68,406 and 81,807. The molecular weights are calculated from their amino acid composition.

APPLICATIONS:

- 1) Estimation of molecular weight on SDS-PAGE: 10 µL/lane for CBBR (Coomassie Brilliant Blue R-250) staining (20 applications), 2 µL /lane for silver staining (100 applications).
- 2) Positive control³ for western blotting / immunostaining: 2 µL / lane (100 applications).

Optimal working concentrations must be determined by the end user.

NOTES:

- 1) Stainability of the lower molecular weight bands by immunostaining may be less than that of the higher bands.
- 2) Stainability of the bands by immunostaining may be different according to animal species and subclass of antibody used and / or staining conditions (see table).
- 3) Do not use as a blocking reagent.
- 4) This product is not a prestained marker.

FORMAT: Purified by affinity chromatography on an IgG column.

PRESENTATION: Liquid in SDS-PAGE sample buffer² [62.5 mM Tris-HCl (pH 6.8) - 2% SDS - 5% glycerol - 0.005% Bromophenol Blue]. 2 µL of this product contains 0.05 µg each of pA(AB)₁₋₆. Assure that contents are dissolved completely prior to use.

STORAGE/HANDLING: Store at -20°C for up to 1 year from date of purchase. After opening maintain at -20°C in undiluted aliquots for up to 3 months. Avoid repeated freeze/thaw cycles.

REFERENCES:

- 1) Kihira, Y. and Aiba S. (1992) *J. Chromatogr.*, **597**:277-283.
- 2) Laemmli, U.K. (1970) *Nature (London)*, **227**:680-685.
- 3) Kihira, Y., et al., (1996) *Urol. Oncol.*, **2**:20-26.

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IgG-binding capacities of immobilized pA(AB)4 for IgGs from various species

Species	Binding Capacity
Human	+++
Bovine	++
Horse	++
Sheep	++
Goat	+
Porcine	+++
Rabbit	+++
Guinea Pig	+++
Rat	+
Mouse (ascites)	+
Chicken	+

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