

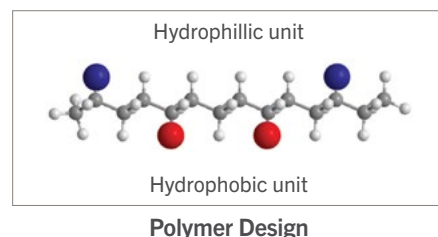


PREVENT NON-SPECIFIC ADSORPTION OF PROTEINS AND CELLS

Blockmaster™ PA1080 is a fully synthetic, water soluble polymer blocking reagent consisting of both hydrophilic and hydrophobic units. The optimized combination of hydrophilic and hydrophobic units realizes excellent protein/cell blocking properties on a wide variety of substrate materials.

Key Properties

- Coating by physical adsorption to different substrate materials — PSt, PP, COP, Glass, PDMS, PVDF, Nitro cellulose, etc.
- Simple coating process
- Prevention of non-specific adsorption of proteins/cells
- Various applications: Microfluidics, 3D cell culture, ELISA Plate, etc.



Protocol

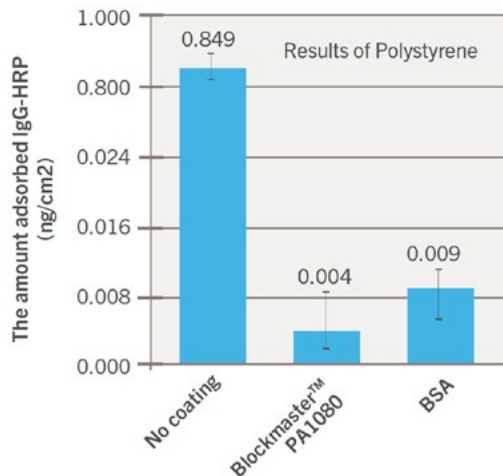
Example Protocol for a Polystyrene 96-Well Plate

1. Add 200 μL of Blockmaster™ PA1080* per well
 2. Incubate for 30 min at room temperature and remove
 3. Wash the wells x 3 with 350 μL water (proteins) or PBS (cells)
 4. Add 100 μL protein or cell solution into the wells
- Blockmaster™ PA1080 coating prevents protein/cell adsorption to the wells

* Recommended concentration is 0.1%-1% but this has to be optimized for each application.

Performance

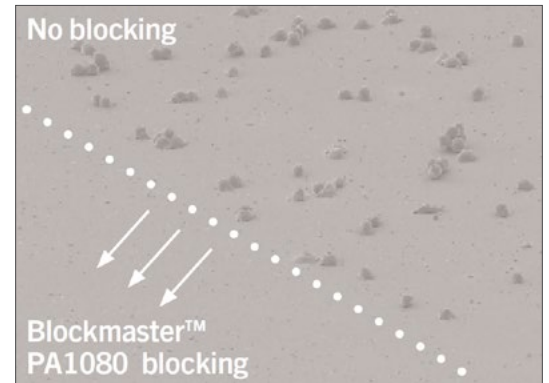
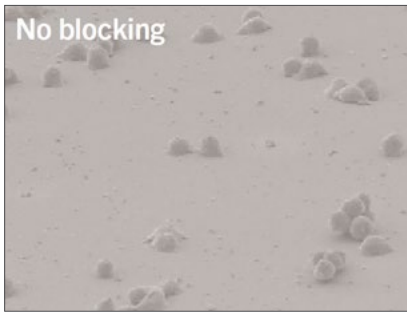
Prevention of Protein Adsorption on Different Substrate Materials



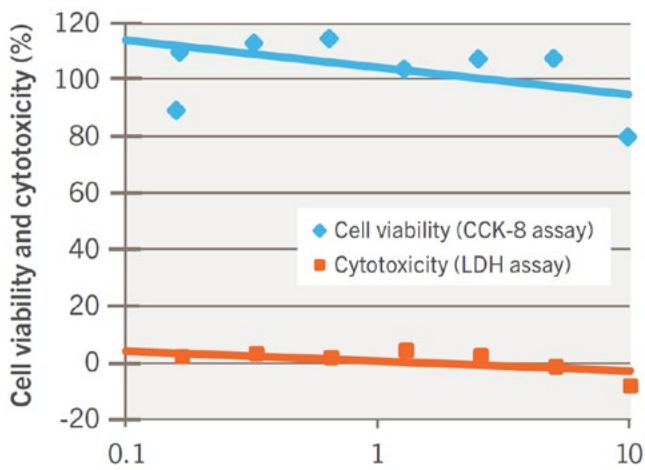
Coating Target	Materials	The Effect of Preventing Adsorption
Substrates	Polystyrene (PSt)	○
	Polypropylene (PP)	○
	Cycloolefin polymner (COP)	○
	Glass	○
Membranes	Nitrocellulose	○
	Polyvinylidene difluoride (PVDF)	●
	Polydimethylsiloxane (PDMS)	●

The amount of protein is: ○ less that 0.05 ng/cm² ● less than 0.20 ng/cm²

Prevention of Ht29 Cell Adsorption onto a Polystyrene 96-Well Plate



Effect of Blockmaster™ PA1080 on Cell Viability



There is no IC50* in the range of the recommended concentrations (10 mg/mL or less).

* Half maximal inhibitory concentration

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