

## Product datasheet

# Native Mussel Adhesive protein ab155708

### Overview

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<b>Product name</b>	Native Mussel Adhesive protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Native
<b>Source</b>	Mussel
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">Q25460</a>

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab155708** in the following tested applications.

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

<b>Applications</b>	In situ hybridization
	Immunohistochemistry (Frozen sections)
	ELISA
	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
	Functional Studies

<b>Form</b>	Liquid
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**Additional notes** There are primarily two methods for coating a surface with Mussel Adhesive protein: hand-spreading and adsorption. In general, adsorption is recommended because it is more consistent and convenient than hand-spreading. But hand-spreading has its place for special situations.

**Hand-spreading:** The Mussel Adhesive protein can be deposited on a glass or plastic surface by mechanical spreading. Using a handy tool, such as a glass rod or micropipette tip, microliter volumes of Mussel Adhesive protein in 1% acetic acid can be spread in a thin liquid film. As the acetic acid evaporates, a coating of Mussel Adhesive protein is left behind. After washing with ethanol and water, the vessels are ready to use. Although hand-spreading gives a less uniform coating than adsorption, it may be useful in special situations, for example when only a portion of a dish or glass slide is to be coated

**Adsorption:** The simplest and most cost-effective method of applying Mussel Adhesive protein is by adsorption from a neutral solution. The method is based on the observation that Mussel Adhesive protein comes out of solution as the pH is raised and spontaneously adsorbs to the first

surface it contacts. The resulting coating is quite thin (probably close to a protein monolayer) and more uniform than that achieved by hand-spreading. The major advantages of this adsorption method are: coating vessels of any shape is simple; less MAP is required per cm<sup>2</sup> of surface area; greater flexibility - the initial concentrations and adsorption times can be adjusted to best suit.

## Preparation and Storage

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**Stability and Storage** Shipped at 4°C. Store at +4°C.  
Constituent: 1% Acetic acid

## General Info

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**Relevance** Mussel Adhesive Protein (MAP) is an effective bioadhesive with wide spectrum. MAP adhesive is a formulation of the "polyphenolic proteins" extracted from the marine mussel, *Mytilus edulis*. This family of related proteins is the key component of the glue secreted by the mussel to anchor itself to solid structures in its natural environment. MAP adhesive will readily coat a variety of materials, such as glass, plastics and even metals. The coating is transparent and stable for 3-30 days at 2-8°C. MAP adhesive is designed to be used as a coating on a substrate to immobilise cells or tissue. It can simplify the manipulation of biological samples in a number of common in vitro techniques, including: Establishment of primary cultures: In situ hybridization, Immunoassays, Microinjection and Immunohistochemistry

**Cellular localization** Secreted

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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