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Alpha 2 Macroglobulin, Human Plasma, Fast Form recombinant protein

C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5, A2M, CPAMD5, FWP007

Catalog # PBV10921r

Specification

Alpha 2 Macroglobulin, Human Plasma, Fast Form recombinant protein - Product info

Primary Accession	P01023
Calculated MW	725 kDa (Homotetramer, Subunit size: 180 kDa) KDa

Alpha 2 Macroglobulin, Human Plasma, Fast Form recombinant protein - Additional Info

Gene ID	2
Gene Symbol	A2M

Other Names
C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5, A2M, CPAMD5, FWP007

Gene Source	Human
Source	Human Plasma
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	No

Target/Specificity
Alpha 2 Macroglobulin

Application Notes
In water or aqueous buffer

Format
Lyophilized

Storage
-20°C; Lyophilized from 100 mM Na Phosphate, pH 7.2.

Alpha 2 Macroglobulin, Human Plasma, Fast Form recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Alpha 2 Macroglobulin, Human Plasma, Fast Form recombinant protein - Images

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Alpha 2 Macroglobulin, Human Plasma, Fast Form recombinant protein - Background

Alpha 2 Macroglobulin (A2M) is a plasma protease inhibitor which has been shown to exist in two forms. The Slow Form of A2M (S-A2M) is the form which possesses the ability to bind and inhibit proteases by a “trap” method. The Fast Form of A2M (F-A2M) is generated when S-A2M undergoes a conformational change due to either entrapment of a protease in the A2M bait region, or chemical cleavage of an internal thiol ester bond located near the bait region. F-A2M does not possess the ability to bind and inhibit protease activity. F-A2M is rapidly taken up by the liver, with a half-life of 2-4 minutes. In vivo, F-A2M typically represents only 0.17–0.7% of the total A2M in blood plasma of adults. The F-A2M plasma concentration is, however, increased in many disease states including pancreatitis, multiple sclerosis and sepsis. F-A2M has also been implicated in the inhibition of amyloid formation associated with Alzheimer’s disease and spongiform encephalopathy.

Alpha 2 Macroglobulin, Human Plasma, Fast Form recombinant protein - References

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