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# Product datasheet for SM1748P

## Influenza A H3N2 (Matrix Protein M1) Mouse Monoclonal Antibody [Clone ID: GA2B]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | GA2B |
| **Applications:** | IF, WB |
| **Recommended Dilution:** | **Western Blot.**<br>**Immunofluorescence:** 1/100. |
| **Reactivity:** | Human |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Influenza A / Puerto Rico / 8 / 34 (H1N1) and A/Bangkok / 1 / 79 (H3N2) viruses.<br>Spleen cells from immunised BALB/c mice were fused with cells of the P3 Ag8.653 mouse myeloma cell line. |
| **Specificity:** | This antibody recognises an epitope within the Influenza A matrix protein.<br>This antibody can be used in influenza A IFA typing in conjunction with AM01375PU-N (clone AA5H). |
| **Formulation:** | PBS, pH 7.5 containing 0.09% Sodium Azide as preservative.<br>State: Purified<br>State: Liquid purified IgG fraction (> 90% pure by SDS-PAGE). |
| **Concentration:** | lot specific |
| **Purification:** | Affinity Chromatography on Protein A. |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |

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**Background:** Influenza virus type A matrix protein, also known as M1, is composed of a 252 amino acid sequence and is type-specific in influenza viruses. It is located inside the viral lipid envelope and plays a key role in virus assembly and replication. M1 can be isolated from particles by removing the envelope with detergents and reducing the pH to 4.0. Influenza viruses are a common and widely spread infectious agent. Like many other viruses, influenza virus are constantly undergoing mutations and thereby avoiding the immune system. The Influenza A Virus M proteins form a continuous shell on the inner side of the lipid bilayer, maintaining the structural integrity of the virus particle through hydrophobic interactions.

**Synonyms:** Seasonal Flu H3N2