**Product Information**

**Anti-HA–FITC antibody, Mouse monoclonal clone HA-7, purified from hybridoma cell culture**

**Product Number** H7411

**Product Description**

Anti-HA–FITC antibody, Mouse monoclonal is derived from the HA-7 hybridoma produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice, immunized with a synthetic peptide corresponding to amino acid residues 98-106 (YPYDVPDYA) of human influenza virus hemagglutinin (HA), conjugated to KLH. The antibody is isolated from ascites fluid and conjugated to fluorescein isothiocyanate, isomer I (FITC).

Anti-HA–FITC antibody, Mouse monoclonal recognizes the HA tag expressed on the N- or C-terminus on HA tagged proteins. The antibody reacts specifically with HA tagged proteins by immunocytochemistry. This staining is specifically inhibited by the immunizing peptide HA peptide, Catalog Number I2149.

Recombinant DNA technology enables the attachment of genes of interest to specific sequences or genes that can provide "affinity handles" or tags. These tags are designed to enable the selective identification and purification of the protein of interest.1-5 These sequences or tags are genetically engineered away from the protein active site, by insertion at the N- or C-terminus.

Human influenza hemagglutinin (HA) is a surface glycoprotein required for the infectivity of the virus.6 The short sequence derived from the HA molecule, corresponding to amino acids 98-106, has been used as a tag, known as the HA-Tag. Many recombinant proteins have been engineered to express the HA tag, which does not appear to interfere with the bioactivity or the biodistribution of the recombinant protein. This tag facilitates the detection, isolation and purification of the proteins.4,5

**Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

**Storage/Stability**

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

**Note:** Store product protected from light.

**Product Profile**

**Immunocytochemistry:** 1-5 µg/ml of the antibody detects HA tagged proteins in mammalian cells.

**Note:** In order to obtain best results in different techniques and preparations we recommend determining optimal working dilutions by titration test.

**Procedure for Direct Immunofluorescent Staining of Cultured Cells**

1. Grow transfected cultured cells expressing HA-tagged protein of choice on sterile coverslips at 37 °C.
2. Wash the cells briefly in PBS.
3. Fix the cells for 10 minutes with 3% paraformaldehyde, and immediately permeabilize with 0.5% Triton® X-100.
4. Wash specimens twice in PBS (5 minutes each wash).
5. Incubate specimens cell-side-up with Anti-HA–FITC in PBS at room temperature for 1 hour.
6. Wash three times in PBS (5 minutes each wash).
7. Add one drop of aqueous mounting medium on the coverslip and invert carefully on a glass slide. Avoid air bubbles.
8. Examine using a fluorescence microscope with appropriate filters.
References

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