

Product No. S-1390

Lot 075H4832

Anti-Chicken Spectrin

Developed in Rabbit

Delipidized, Whole Antiserum

Antiserum is developed in rabbit using purified chicken erythrocyte spectrin (α and β chains) as the immunogen. Antisera has been treated to remove lipoproteins and is supplied as a liquid with 0.1% sodium azide (see MSDS)* as a preservative.

Specificity

Antiserum specifically stains the α and β chains of chicken spectrin in immunoblotting.

Description

Spectrin is the major cytoskeletal component in erythrocytes. It is composed of two types of polypeptides denoted α and β with molecular weights of 240,000 and 220,000 daltons, respectively. The α and β chains form heterotetramers which are linked end-to-end via oligomeric actin and band 4.1 protein, forming an elaborate submembranal network. The spectrin web is further attached to the erythrocyte membrane via another protein, namely ankyrin. In recent years a diverse number of spectrin-like molecules have been found in non-erythroid cells. In most cases the different spectrin-related proteins contain the common α chain and a tissue specific β chain. The spectrin-like molecules in non-erythroid cells are known by different names such as fodrin, CBP I, calspectin and TW 260/240. It should be noted that spectrins bind calmodulin.

Protein Concentration: 64.0 mg/ml by Biuret.

Working Dilutions

1. A dilution of 1:40 was determined by indirect immunofluorescence using cultured chicken fibroblasts.
2. A dilution of 1:400 was determined by indirect immunoblotting using chicken spectrin extract.

Uses

Rabbit Anti-Chicken Spectrin may be used for localization of spectrin and spectrin-like molecules in a variety of avian and mammalian tissues.

Storage

For continuous use, store 2-8°C. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is **not** recommended. Storage in "frost-free" freezers is **not** recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

*Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.