# Spectrin Alpha 1 (Erythrocyte Marker) Antibody

Mouse Monoclonal Antibody [Clone SPTA1/1832]

| Catalog No | Format | Size |
|---|---|---|
| 6708-MSM2-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 6708-MSM2-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 6708-MSM2-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

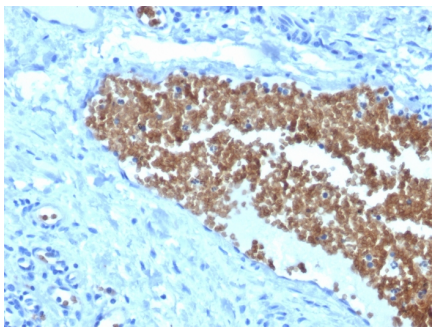
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

## Product Details

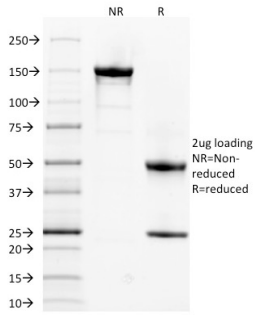
| | |
|---|---|
| **Clone** | SPTA1/1832 |
| **Gene Name** | SPTA1 |
| **Immunogen** | Recombinant human SPTA fragment (around aa356-475) (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2b / Kappa |
| **Mol. Weight of Antigen** | 240kDa |
| **Cellular Localization** | Cell cortex, Cytoplasm, Cytoskeleton |
| **Species Reactivity** | Human |
| **Positive Control** | K562; HeLa; Jurkat cells. Placenta or Tonsil. |

**Optimal dilution for a specific application should be determined.*

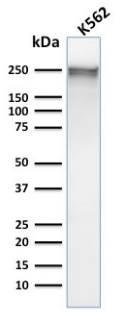
## Product Images for Spectrin Alpha 1 (Erythrocyte Marker) Antibody



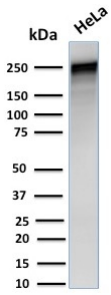
Formalin-fixed, paraffin-embedded human Tonsil stained with Spectrin alpha 1 (SPTA1) Mouse Monoclonal Antibody (SPTA1/1832).



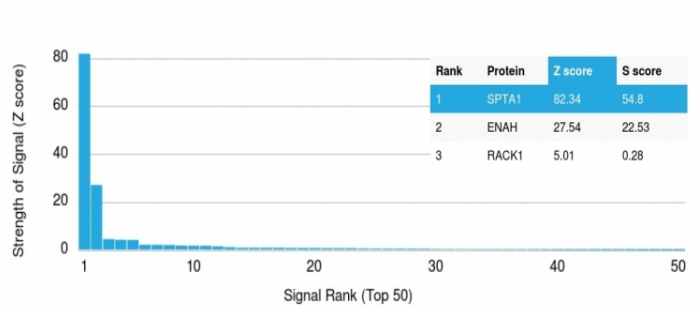

SDS-PAGE Analysis Purified Spectrin alpha 1 Mouse Monoclonal Antibody (SPTA1/1832). Confirmation of Purity and Integrity of Antibody.



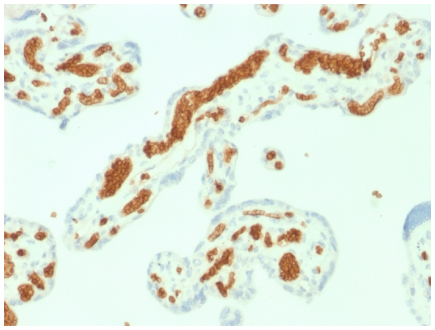

Western Blot Analysis of Human K562 cell lysate using Spectrin alpha 1 Mouse Monoclonal Antibody (SPTA1/1832).




Western Blot Analysis of Human HeLa cell lysate using Spectrin alpha 1 Mouse Monoclonal Antibody (SPTA1/1832).




Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Spectrin, alpha 1 Mouse Monoclonal Antibody (SPTA1/1832) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human Placenta stained with Spectrin alpha 1 (SPTA1) Mouse Monoclonal Antibody (SPTA1/1832).

## Specificity & Comments

Spectrin is an actin crosslinking and molecular scaffold protein that links the plasma membrane to the actin cytoskeleton, and functions in the determination of cell shape, arrangement of transmembrane proteins, and organization of organelles. Spectrins function as membrane organizers and stabilizers, composed of non-homologous ) are present in other somatic cells. The spectrin tetramers in erythrocytes act as barriers to lateral diffusion, but spectrin dimers seem to lack this function.

## Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Autophagy, Developmental Biology, Signal Transduction

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.