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# 36-3060: Anti-ZFYVE28 (Zinc Finger FYVE-type containing 28) Monoclonal Antibody(Clone: LST2/2426)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | LST2/2426 |
| **Application :** | IHC |
| **Reactivity :** | Human |
| **Gene :** | ZFYVE28 |
| **Gene ID :** | 57732 |
| **Uniprot ID :** | Q9H9 |
| **Alternative Name :** | Lateral signaling target protein 2 homolog; LST2; LYST2; Zinc finger FYVE domain-containing protein 28 (ZFYVE28) |
| **Isotype :** | Mouse IgG2a, kappa |
| **Immunogen Information :** | Recombinant full-length human ZFYVE28 protein |

## Description

ZFYVE28 belongs to the lst-2 family. It contains 1 FYVE-type zinc finger. The FYVE-type zinc finger mediates the interaction with phosphatidylinositol 3-phosphate (PI3P) and localization to early endosome membranes when not mono-ubiquitinated at Lys-87. Mono-ubiquitination at Lys-87 prevents binding to phosphatidylinositol 3-phosphate (PI3P) and localization to early endosome membranes. ZFYVE28 is a negative regulator of epidermal growth factor receptor (EGFR) signaling. It acts by promoting EGFR degradation in endosomes when not mono-ubiquitinated. The FYVE domain has been identified in a number of unrelated signaling molecules. This protein functions to recruit SMAD2 to the transforming growth factor-beta receptor. The FYVE domain is required to maintain the normal localization of this protein but is not involved in mediating interaction with SMADs.

## Product Info

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| **Amount :** | 20 µg / 100 µg |
| **Content :** | 200 µg/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 condition :** | 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. |

## Application Note

Immunohistochemistry (Formalin-fixed) (0.1-0.2ug/ml for 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&degC followed by cooling at RT for 20 minutes);

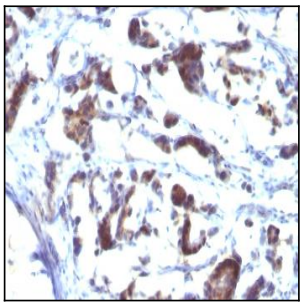


Fig. 1: Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with ZFYVE28 Mouse Monoclonal Antibody (LST2/2426)

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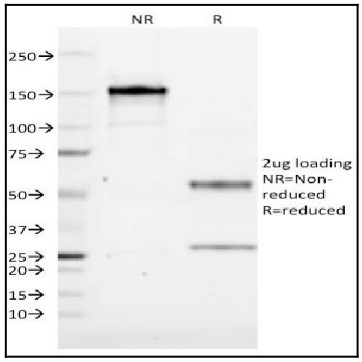



Fig. 2: SDS-PAGE Analysis Purified ZFYVE28 Mouse Monoclonal Antibody (LST2/2426). Confirmation of Purity and Integrity of Antibody.

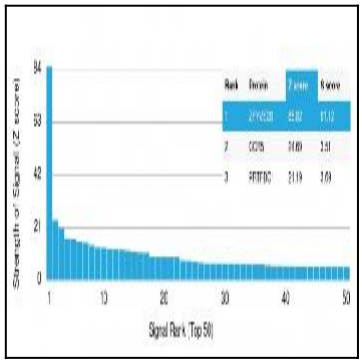



Fig. 3: Analysis of Protein Array containing more than 19,000 full-length human proteins using ZFYVE28 Mouse Monoclonal Antibody (LST2/2426) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG 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 Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody 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 Monoclonal Antibody to protein X is equal to 29.

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