Recombinant STAT6 (Solitary Fibrous Tumor Marker) Antibody

Rabbit Monoclonal Antibody [Clone STAT6/12798R]

Catalog No	Format	Size
6778-RBM9-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6778-RBM9-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6778-RBM9-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

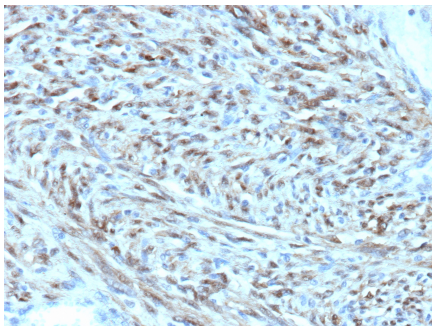
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

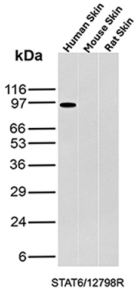
Clone	STAT6/12798R
Immunogen	Recombinant fragment (around aa817-832) of human STAT6 protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	94.13kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	Human kidney or liposarcoma. Human Skin

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

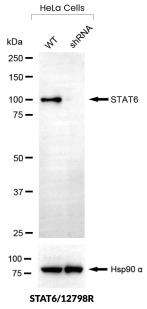
Product Images for Recombinant STAT6 (Solitary Fibrous Tumor Marker) Antibody



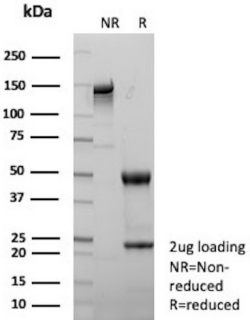
Formalin-fixed, paraffin-embedded human liposarcoma stained with STAT6 Rabbit Recombinant Monoclonal Antibody (STAT6/12798R). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



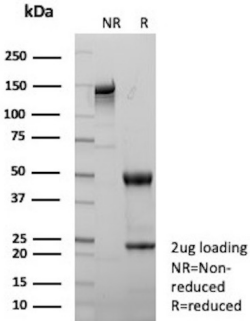
Western blot analysis of Human Skin, Mouse Skin and Rat Skin tissue lysates using STAT6 Rabbit Recombinant Monoclonal Antibody (STAT6/12798R).



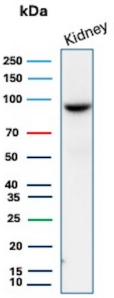
Western Blot validation of anti-STAT6 antibody. STAT6 protein expression was compared in wild-type (WT) and STAT6 shRNA Knockdown (KD) HeLa cells (30ug of total protein). Loading control is shown below.



SDS-PAGE Analysis of Purified STAT6 Recombinant Rabbit Monoclonal Antibody (STAT6/12798R). Confirmation of Purity and Integrity of Antibody.



SDS-PAGE Analysis of Purified Recombinant Signal transducer and activatorof transcription 6 / STAT6 Rabbit Monoclonal Antibody (STAT6/12798R). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of human kidney tissue lysate using STAT6 Rabbit Recombinant Monoclonal Antibody (STAT6/12798R).

Specificity & Comments

STAT6 is a transcription factor in the Jak/STAT signal transduction pathway responsible for mediating IL-4 immune signaling. STAT6 was recently suggested to be a reliable marker to distinguish solitary fibrous tumors from other soft tissue neoplasms. Gene fusions are common in solitary fibrous tumors. Recent next generation sequencing studies demonstrated the presence of a NAB2-STAT6 fusion, formed by an intrachromosomal inversion fusing two neighboring genes on chromosome 12q13, in 55-100% of solitary fibrous tumors, regardless of tumor morphology or anatomical site. By immunohistochemistry, nuclear STAT6 expression can discriminate solitary fibrous tumors from its morphological mimics in the meninges, including meningioma, glioblastoma, gliosarcoma, haemangioblastoma, schwannoma and haemangioma. A recent study by Cheah, et al. using the rabbit monoclonal STAT6 antibody (Clone YE361) observed expression in all solitary fibrous tumors (54/54) tested, regardless of histology, anatomical site or CD34 status. Morphological mimics of solitary fibrous tumors were negative, demonstrating 100% specificity.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. 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.

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.

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