Anti-V5-Tag Antibody (SV5-Pk1), Mouse IgG2a | PA000320.m2a

Catalog No.: PA000320.m2a **Clone: SV5-Pk1** **Isotype: Mouse IgG2a, kappa** **RRID: AB_3758669**

Sequence-defined recombinant anti V5 tag antibody (Clone SV5-Pk1, Mouse IgG2a kappa) engineered for specific, high-affinity detection of GKPIPNPLLGLDST-tagged fusion proteins. Mammalian recombinant production eliminates hybridoma batch variability while delivering superior Protein A/G binding for reproducible WB, IP, IF, and FCM results.

PRODUCT SPECIFICATIONS

Parameter	Specification
Catalog No.	PA000320.m2a
Product Name	Recombinant Anti-V5-Tag Monoclonal Antibody (clone SV5-Pk1), Mouse IgG2a Kappa
Supplier & Brand	Syd Labs, Inc. / Syd Labs
Synonyms	Anti-V5-Tag Antibody, V5-Tag Antibody (SV5-Pk1), Clone SV5-Pk1, GKPIPNPLLGLDST epitope antibody
Clone & Isotype	SV5-Pk1 | mouse IgG2a kappa
Specificity/Sensitivity	The 14-amino acid sequence GKPIPNPLLGLDST, derived from simian virus 5 (SV5) on V5 tagged proteins and V5 tag expression cells.
Applications	ELISA, flow cytometry, immunoblotting, immunoprecipitation, immunocytochemistry, immunofluorescence, chromatin immunoprecipitation, electron microscopy, supershift assays, protein purification if conjugated with agarose or magnetic beads, and isotype controls.
Reactivity	Human, Mouse, Rat, Others
Purification	The V5-tag antibody was affinity-purified from supernatant of mammalian cells cultured in a chemically defined medium by affinity-chromatography using protein A.
Form Of Antibody	1 mg/ml in 1x PBS
Endotoxin	Less than 1 EU/mg of protein as determined by LAL method
Purity	>95% by SDS-PAGE under reducing conditions.
Shipping	The Recombinant Anti-V5-Tag Monoclonal Antibody (clone SV5-Pk1), Mouse IgG2a Kappa is shipped with ice pack. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. For maximum recovery of the product, centrifuge the original vial after thawing and before removing the cap. 1 month from date of receipt, 2 to 8°C as supplied. 12 months from date of receipt, -20°C to -70°C as supplied.
RRID	AB_3758669

BIOLOGICAL DESCRIPTION & KEY PRODUCT HIGHLIGHTS

The Recombinant Anti-V5-Tag Monoclonal Antibody (Clone SV5-Pk1), Mouse IgG2a Kappa is a full-length, bivalent recombinant monoclonal antibody derived from the classic SV5-Pk1 hybridoma clone. It specifically recognizes the 14-amino-acid V5 epitope tag (GKPIPNPLLGLDST, containing the core recognition sequence IPNPLLGL), originally identified on the P and V proteins of paramyxovirus simian virus 5 (parainfluenza virus 5, PIV5).

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- **Gold-Standard Clone SV5-Pk1 Specificity:** Recognizes the linear 14-aa V5 sequence (GKPIPNPLLGLDST; core motif IPNPLLGL) fused to the N-terminus, C-terminus, or internal linkers of recombinant proteins.
- **Strong Protein A & Protein G Binding:** Intact Mouse IgG2a kappa Fc region exhibits high direct affinity for both Protein A and Protein G agarose/magnetic beads for efficient immunoprecipitation (IP/Co-IP).
- **Trypsin-Resistant Epitope Compatibility:** Ideal for cell-surface engineering and flow cytometry workflows where standard trypsin detachment leaves the V5 tag intact.
- **Recombinant Batch-to-Batch Consistency:** Expressed in chemically defined mammalian cell culture to ensure >95% purity (SDS-PAGE) and eliminate hybridoma drift.

ORDERING & TECHNICAL SUPPORT

For batch-specific Certificate of Analysis (COA), SDS-PAGE validation data, or custom bulk volume ordering, please visit the product webpage or contact our support team:

- **Product Webpage:** https://www.ushelf.com/anti-v5-tag-monoclonal-antibody-sv5-pk1-pa000320-m2a/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com

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