

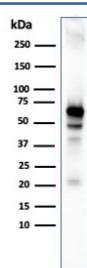
## Recombinant AKT1 Antibody [clone AKT1/3898R] (V8442)

Catalog No.	Formulation	Size
V8442-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8442-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8442SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

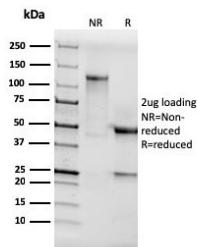
Recombinant RABBIT MONOCLONAL

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Recombinant Rabbit Monoclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Name</b>	AKT1/3898R
<b>Purity</b>	Protein A affinity chromatography
<b>UniProt</b>	P31749
<b>Localization</b>	Nuclear, cytoplasmic, cell surface
<b>Applications</b>	Western Blot : 1-2ug/ml ELISA : order Ab without BSA for coating
<b>Limitations</b>	This recombinant AKT1 antibody is available for research use only.



Western blot testing of human MCF7 cell lysate with recombinant AKT1 antibody.  
Predicted molecular weight ~56 kDa.



SDS-PAGE analysis of purified, BSA-free recombinant AKT1 antibody (clone AKT1/3898R) as confirmation of integrity and purity.

## Description

Recognizes a protein of 62kDa, which is identified as AKT1. The serine/threonine kinase Akt family contains several members, including Akt1 (also designated PKB or RacPK), Akt2 (also designated PKB tyrosine residues 740 and 751, which bind the subunit of the phosphatidylinositol 3-kinase (PI 3-kinase) complex. Activation of Akt1 by insulin or insulin-growth factor-1 (IGF-1) results in phosphorylation of both Thr 308 and Ser 473. Akt proteins become phosphorylated and activated in insulin/IGF-1-stimulated cells by an upstream kinase(s), and the activation of Akt1 and Akt2 is inhibited by the PI kinase inhibitor wortmannin.

## Application Notes

Optimal dilution of the recombinant AKT1 antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 85-189 from the human protein was used as the immunogen for the recombinant AKT1 antibody.

## Storage

Store the recombinant AKT1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).