

# OsGSK2 Rabbit pAb

**Catalog No.: A20367**

## Basic Information

**Observed MW**

45kDa

**Calculated MW**

46kDa

**Category**

Primary antibody

**Applications**

WB, ELISA

**Cross-Reactivity**

Oryza sativa

## Background

Serine-threonine kinase that acts as a negative regulator of brassinosteroid (BR) signaling. Phosphorylates DLT and BZR1, two positive regulators that mediate several BR responses. Phosphorylation of DLT and BZR1 inhibits their activities in BR signaling. Phosphorylates OFP8, a positive regulator of BR responses. Phosphorylated OFP8 shuttles from the nucleus to the cytoplasm where it is degraded by the proteasome. Phosphorylates the E3 ubiquitin-protein ligase PUB24, a negative regulator of BR signaling, which targets BZR1 and promotes its degradation via the 26S proteasome. Phosphorylation of PUB24 increases its stability. Phosphorylates the AP2-ERF transcription factor SMOS1, a positive regulator of BR signaling, which cooperatively functions in a transactivating complex with BZR1 to enhance the transcription of BR biosynthetic genes. Phosphorylation of SMOS1 leads to its degradation by an unknown mechanism.

## Recommended Dilutions

**WB** 1:500 - 1:2000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

4338079

**Swiss Prot**

Q60EZ2

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

GSK2; SK22; OsGSK2; OsSK22; OJ1430\_B02.4

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

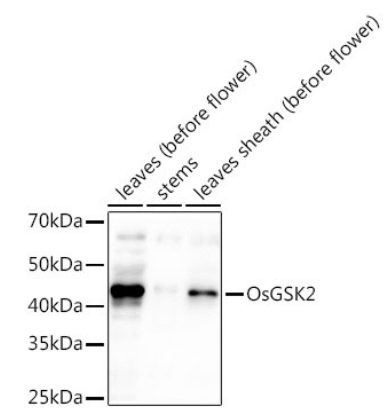
Affinity purification

**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

# Validation Data



Western blot analysis of extracts of various tissues from the japonica rice (*Oryza sativa* L.) variety Zhonghua 11, using OsGSK2 Rabbit pAb (A20367) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30s.