

Anti-Arabinogalactan-protein [LM30]

Catalogue number: 157934

Sub-type:

Images:

Contributor

Inventor: Paul Knox

Institute: University of Leeds

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Arabinogalactan-protein [LM30]

Alternate name:

Class: Monoclonal

Conjugate: Unconjugated

Description: The Gsp-1 genes of wheat are proposed to encode precursor proteins that are post-translationally processed to give two components: the arabinogalactan peptide (comprising 15 amino acids) and the grain softness protein (GSP-1) (the major form comprising 113 amino acids with 10 cysteine residues) (Elmorjani et al., 2013). However, it has not been directly demonstrated that the AGP is derived from Gsp-1 genes. Gsp-1 genes appear to be ubiquitous in grasses, being identified in 65 species from the five major grass subfamilies, with over 20 different Gsp-1 alleles being reported (Wilkinson et al., 2013). The GSP protein belongs to a large family of seeds storage proteins called the prolamin superfamily (Shewry and Halford, 2002) and has been predicted to have a similar structure to other members of this family, including the 2S storage albumins which occur in dicotyledonous seeds and the puroindolines (Pins) of cereal seeds (Elmorjani et al., 2013).

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host: Rat

Immunogen:

Wheat AGP in complete Freund's adjuvant.

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: IgM

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Arabinogalactan-protein

Target alternate names:

Target background: The Gsp-1 genes of wheat are proposed to encode precursor proteins that are post-translationally processed to give two components: the arabinogalactan peptide (comprising 15 amino acids) and the grain softness protein (GSP-1) (the major form comprising 113 amino acids with 10 cysteine residues) (Elmorjani et al., 2013). However, it has not been directly demonstrated that the AGP is derived from Gsp-1 genes. Gsp-1 genes appear to be ubiquitous in grasses, being identified in 65 species from the five major grass subfamilies, with over 20 different Gsp-1 alleles being reported (Wilkinson et al., 2013). The GSP protein belongs to a large family of seeds storage proteins called the prolamin superfamily (Shewry and Halford, 2002) and has been predicted to have a similar structure to other members of this family, including the 2S storage albumins which occur in dicotyledonous seeds and the puroindolines (Pins) of cereal seeds (Elmorjani et al., 2013).

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format: Liquid

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Moller et al. 2008. Glycoconj J. 25(1):37-48. PMID: 17629746.

CancerTools.org