

# Anti-Xylan/arabinoxylan [LM11]

**Catalogue number:** 157952

**Sub-type:**

**Images:**

## Contributor

**Inventor:** Paul Knox

**Institute:** University of Leeds

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-Xylan/arabinoxylan [LM11]

**Alternate name:** Xylan,  $\beta$ -1,4-linked xylose

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** Xylans are major noncellulosic polysaccharides of plant cell walls and are especially abundant in secondary cell walls. Xylans are chains of  $\beta$ -1,4-linked d-xylopyranosyl residues that can be substituted with arabinosyl, glucuronosyl (and its 4-O-methyl ether derivative), or acetyl residues (Ebringerová and Heinze 2000). Glucuronoxylans occur in angiosperm secondary cell walls, whereas Commelinoid monocotyledon primary cell walls have abundant glucuronoarabinoxylans (GAXs), and cereal grains have neutral arabinoxylans (Carpita 1996; Ebringerová and Heinze 2000). Structural features of xylans can vary during development (Obel et al. 2002; Suzuki et al. 2000). All xylans are thought to cross-link cellulose microfibrils and contribute to cell mechanical properties. Commercially, arabinoxylans are important for the functionality of flour and the nutritional value of animal feed.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:** Rat

**Immunogen:** Xylopentaose-BSA

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:** IgM

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Wheat arabinoxylan in addition to unsubstituted xylans.

**Target alternate names:**

**Target background:** Xylans are major noncellulosic polysaccharides of plant cell walls and are especially abundant in secondary cell walls. Xylans are chains of  $\beta$ -1,4-linked d-xylopyranosyl residues that can be substituted with arabinosyl, glucuronosyl (and its 4-O-methyl ether derivative), or acetyl residues (Ebringerová and Heinze 2000). Glucuronoxylans occur in angiosperm secondary cell walls, whereas Commelinoid monocotyledon primary cell walls have abundant glucuronoarabinoxylans (GAXs), and cereal grains have neutral arabinoxylans (Carpita 1996; Ebringerová and Heinze 2000). Structural features of xylans can vary during development (Obel et al. 2002; Suzuki et al. 2000). All xylans are thought to cross-link cellulose microfibrils and contribute to cell mechanical properties. Commercially, arabinoxylans are important for the functionality of flour and the nutritional value of animal feed.

**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:** McCartney et al. 2005. J Histochem Cytochem. 53(4):543-6. PMID: 15805428.

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