

**Application of mouse monoclonal antibody (mAb) 4C10-based enzyme-linked immunosorbent assay (ELISA) for amandin detection in almond (*Prunus dulcis* L.) genotypes and hybrids.**

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**Abstract:**

Amandin presence in 108 almond genotypes/hybrids and 80 almond marketing varieties grown in different locations was determined using murine monoclonal antibody 4C10-based sandwich ELISA. The results indicated that amandin was present in all the tested samples. The ELISA immunoreactivity variations were up to 8 fold among genotypes/hybrids and 2.5 fold among the almond marketing varieties. Amandin content variations were also confirmed using Western blot and dot blot. No correlation was observed between almond seed size and total soluble protein or amandin content.