

Anti-mammalian sTnI [6G1] Bulk Size Ab03818-2.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted mouse IgG2a Fc Silent™ antibody, based on the original mouse IgG2a format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2a, [Fc Silent™](#), Kappa

Clone Number: 6G1

Alternative Name(s) of Target: Skeletal Troponin I; Troponin I; skeletal Troponin C; sTnC

UniProt Accession Number of Target Protein:

Published Application(s): WB, ELISA

Published Species Reactivity: cattle, Deer, Horse, Pig, Sheep

Immunogen: The original antibody was generated by immunizing BALB/c mice with heat-treated TnI in Freund's complete adjuvant, followed by two booster injections with TnI in Freund's incomplete adjuvant.

Specificity: This antibody is specific for mammalian skeletal Troponin I (sTnI) and can cross-react with skeletal Troponin C (sTnC).

Application Notes: This antibody was originally reported to react with equine (horse) Troponin I (TnI) as determined by ELISA (US7297500B2). Later, it was shown through WB to bind mammalian skeletal TnI (sTnI), specifically bovine (cow) and porcine (pig), where it was shown to be immunoreactive to both sTnI and skeletal Troponin C (sTnC). However, sTnC was not detected by this antibody following extraction using urea and β ME supplemented extraction buffer, indicating that their addition leads to the destruction of the antibody's epitope on sTnC. In a sandwich ELISA, it was determined that this antibody detects heated bovine, cervine (deer), equine, ovine (sheep), and porcine samples (Jiang et al., 2020; DOI: 10.1016/j.foodcont.2019.107045).

Antibody First Published in: Hsieh et al. Use of troponin I as a species marker protein for meat speciation in both raw and heat-processed products. [US7297500 PMID:](#)

Note on publication: The original publication describes the development and applications of monoclonal antibodies which bind to heat-treated proteins of meat.

Product Form

Size:

1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.