

NSE2 | Validation File

TARGET NSE2 (Non-SMC element 2, MMS21)

CLONE NAME 215C

DESCRIPTION mouse monoclonal

ANTIGEN USED NSE2-GST recombinant protein

ISOTYPE IgG1

SPECIES REACTIVITY human

LOCALIZATION nuclear

POSITIVE CONTROL tonsil

STORAGE BUFFER Tissue culture supernatant: 0.02% sodium azide

STORAGE Aliquot and store at 4C. Do not freeze

 Recommended

 Inconclusive

 Not Recommended

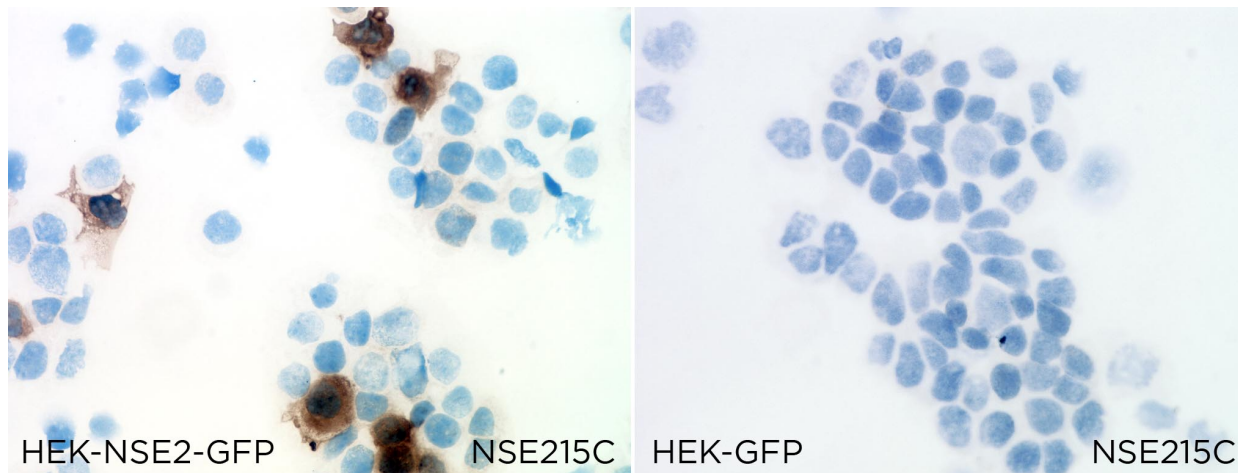
 Not Tested

APPLICATIONS

● | ICC | Immunocytochemistry

215C is able to detect human NSE2 protein in immunocytochemistry

To confirm that 215C mAb recognizes human NSE2 protein, immunocytochemistry on frozen cytospin preparations of GFP-tagged NSE2 expressed in HEK293T was performed. Cytospin preparation of GFP transfected cells was used as negative control.



● | WB | **Western Blotting**

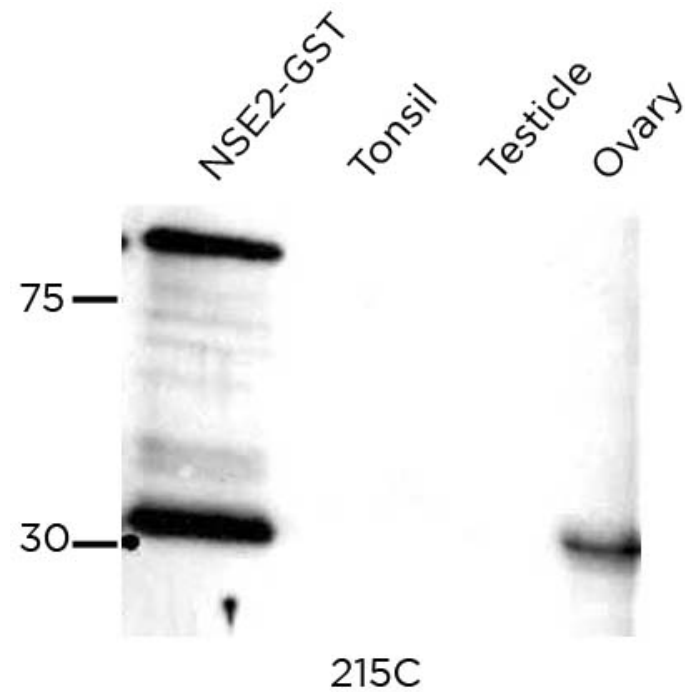
215C mAb is able to detect human NSE2 protein by WB.

DILUTION neat supernatant

Predicted molecular weight: **28kDa**
Observed molecular weight: **32kDa**

LANES

Lane 1 NSE2-GST	(0.1ug) (+)
Lane 2 Tonsil	(100ug) (-)
Lane 3 Testicle	(100ug) (-)
Lane 4 Ovary	(100ug) (+)



● | IHC-P | **Immunohistochemistry (paraffin)**

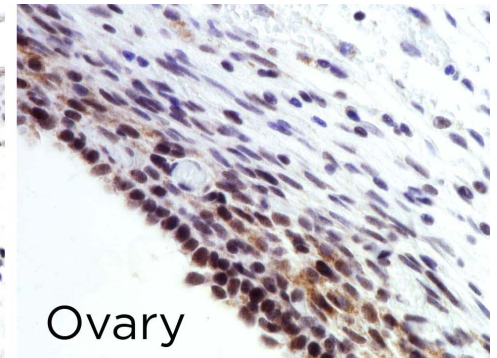
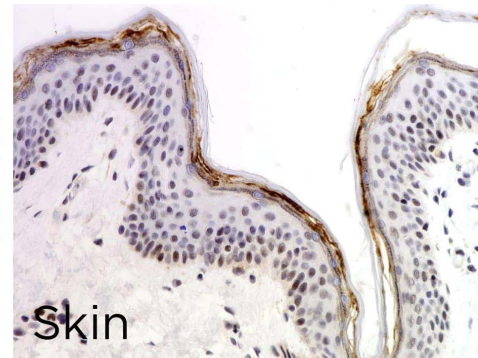
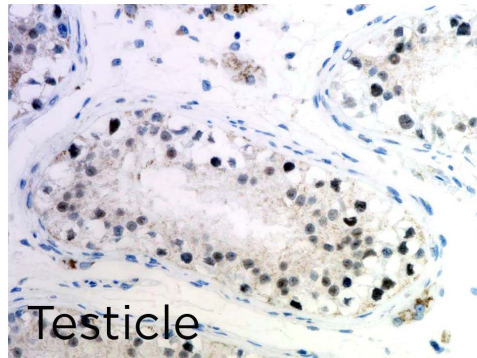
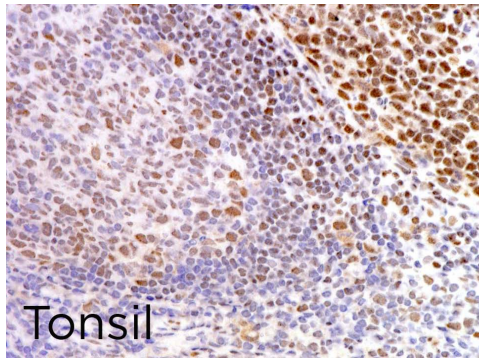
215C mAb can be used to detect NSE2 protein in human paraffin tissues

TISSUE SAMPLE Human tonsil, testicle, skin and ovary

DILUTION 1:20 (purified)

ANT. RETRIEVAL 20 minutes ER2 (Tris-EDTA)

DETECTION SYSTEM Novolink kit (BondMax Leica)



● | IF | **Immunofluorescence (paraffin)** Not tested

● | IHC-F | **Immunohistochemistry (frozen)** Not Recommended

● | FC | **Flow Cytometry** Not tested

● | IP | **Immunoprecipitation** Not Tested

REFERENCES

NSMCE2 suppresses cancer and aging in mice independently of its SUMO ligase activity. Jacome A, Gutierrez-Martínez P, Schiavoni F, Tenaglia E, Martinez P, Rodríguez-Acebes S, Lecona E, Murga M, Méndez J, Blasco MA, Fernandez-Capetillo O. EMBO J. 2015 Nov 3;34(21):2604-19.