

## ***NSMCE2 | Validation File***

**TARGET** NSMCE2 (Non-SMC element 2, MMS21)

**CLONE NAME** 215C

**DESCRIPTION** mouse monoclonal

**ANTIGEN USED** NSMCE2-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

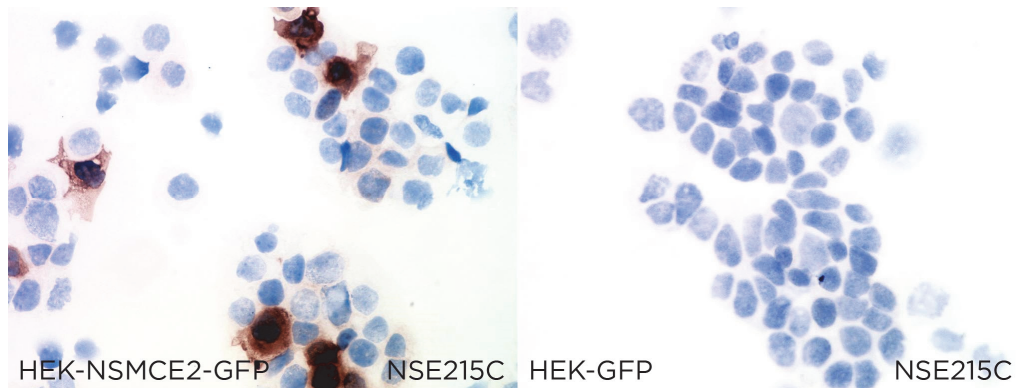
 Not Tested

## APPLICATIONS

### ● | ICC | *Immunocytochemistry*

215C is able to detect human NSMCE2 protein in immunocytochemistry

To confirm that 215C mAb recognizes human NSMCE2 protein, immunocytochemistry on frozen cytospin preparations of GFP-tagged NSMCE2 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 NSMCE2 protein by WB.

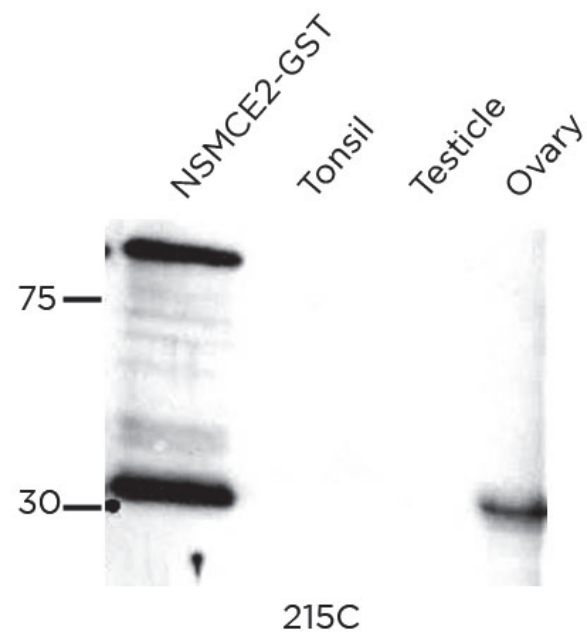
**DILUTION** neat supernatant

Predicted molecular weight: **28kDa**

Observed molecular weight: **32kDa**

**LANES**

Lane 1 NSMCE2-GST	(0.1ug) (+)
Lane 2 Tonsil	(100ug) (-)
Lane 3 Testicle	(100ug) (-)
Lane 4 Ovary	(100ug) (+)



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

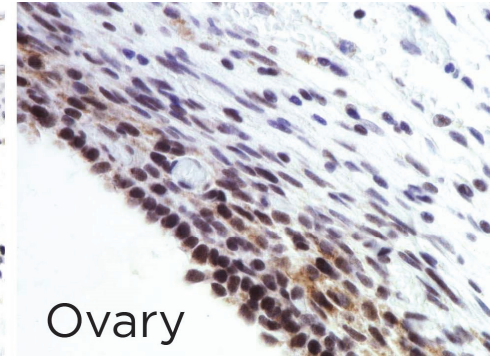
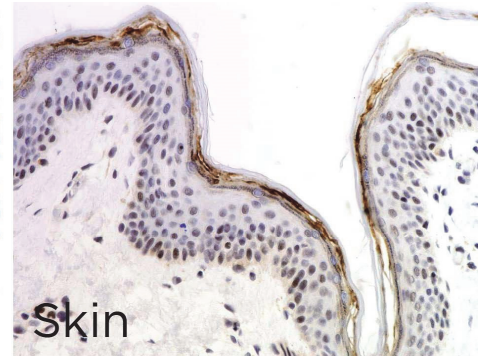
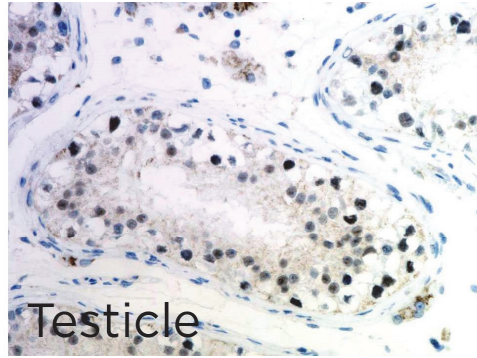
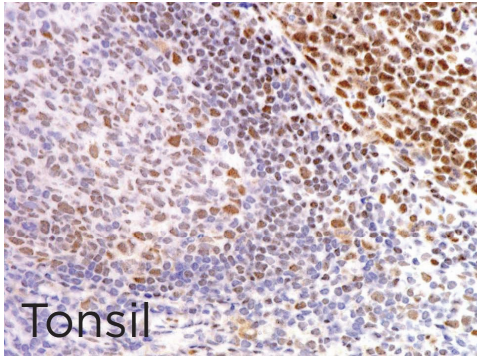
215C mAb can be used to detect NSMCE2 protein in human paraffin tissues

**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

**SOLD BY** Abcam

**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.