

H3.3 G34W (ZR459)

Rabbit monoclonal Antibody

Host: Rabbit
Specificity: Human
Immunogen: Synthesized peptide corresponding to Histone H3.3 G34W mutation
Ig Class: IgG
Storage: Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

Specifications: H3.3 G34W (ZR459) Rabbit monoclonal primary antibody detects H3.3 G34W protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

Staining procedures: Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:100-200. Positive Control: sample known to contain H3.3 G34W protein.

Localization: Nuclear.

Intended Use: Research Use Only (RUO). This antibody is not for diagnostic use.

Description: Histones are proteins that help package DNA into structures called nucleosomes, playing a key role in gene regulation. H3.3 is a variant of the histone H3 protein, which is incorporated into chromatin in a replication-independent manner, often at active genes. H3.3 G34W refers to a specific mutation in the histone H3.3 protein, where the glycine (G) at position 34 is replaced by tryptophan (W). This mutation is significant in certain types of cancers, particularly pediatric gliomas and malignant giant cell tumor of bone. Clone ZR459 is a mutation-specific immunohistochemical stain against the G34W mutation in histone 3F3A. Nuclear immunoreactivity supports the diagnosis of giant cell tumor of bone (~95%) and some types of gliomas.

Supplied As: Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

References:

1. Amary F, et al: Am J Surg Pathol. 2017;41(8):1059-1068.
2. Treffel M, et al: Am J Surg Pathol. 2020;44(1):1-10.
3. Wang L, et al: Am J Surg Pathol. 2022; 46(2):249-257.



Z2820RL-R/ Z2820RS-R/ Z2820RT-R/ Z2820RP-R (1.0ml Concentrate/0.5ml Con./0.1ml Con./7ml Pre-dil)



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(research
use only)



(lot number)



(catalogue
number)



(expiry date)



(temperature
limit)



(consult
Instructions
for Use)