

Store at
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#79769**HLA-G (E8N9C) XP[®] Rabbit mAb**

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Applications: W, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 30-40	Source/Isotype: Rabbit IgG	UniProt ID: #P17693	Entrez-Gene Id: 3135
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Product Usage Information**Application**

Western Blotting
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:100 - 1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #49508.

Specificity/Sensitivity

HLA-G (E8N9C) Rabbit mAb recognizes endogenous levels of total HLA-G protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu102 of human HLA-G protein.

Background

HLA-G (HLA-G histocompatibility antigen, class I, G) is a non-classical MHC molecule expressed by trophoblasts in placenta, thymic epithelial cells, and some tumors. Alternative splicing leads to generation of at least six isoforms, four that are transmembrane proteins and two that are soluble (1-4). It is an inhibitory molecule involved in immune tolerance and escape, originally studied for its role in maternal tolerance of the fetus during pregnancy (1-5). HLA-G binds ILT2, ILT4, and KIR2DL4, playing a role in the regulation of natural killer, T, and monocyte/macrophage cells (4-5). Its involvement in evasion of immune response makes it a potential target for immunotherapy (6).

Background References

1. Kovats, S. et al. (1990) *Science* 248, 220-3.
2. Pazmany, L. et al. (1996) *Science* 274, 792-5.
3. Fujii, T. et al. (1994) *J Immunol* 153, 5516-24.
4. Shiroishi, M. et al. (2003) *Proc Natl Acad Sci U S A* 100, 8856-61.
5. LeMaout, J. et al. (2005) *FASEB J* 19, 662-4.
6. Curigliano, G. et al. (2013) *Clin Cancer Res* 19, 5564-71.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human

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