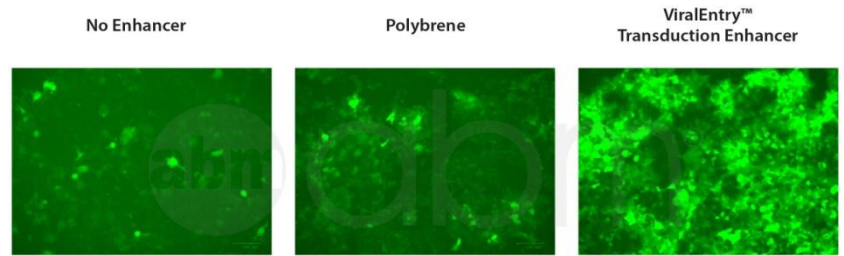


# ViralEntry™ Transduction Enhancer



## Mechanism and Limitation of Polybrene

Polybrene (hexadimethrine bromide) is a cationic polymer traditionally regarded as the benchmark enhancer for viral transduction in adherent mammalian cell systems. By neutralizing the electrostatic repulsion between negatively charged virions and the cell surface, it increases viral adsorption and promotes more efficient endocytosis. This mechanism can increase the delivery efficiency of enveloped viruses (e.g. lentivirus and retrovirus) without altering viral tropism. However, its use can be limited by **cell-specific toxicity** and **reduced compatibility** with suspension cultures.

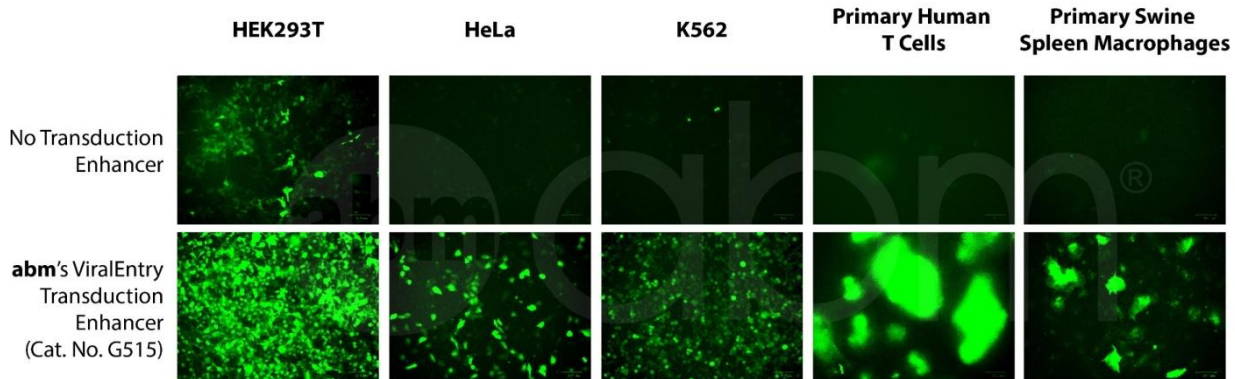


abm's ViralEntry™ Transduction Enhancer is a superior replacement for Polybrene. HEK293T cells were transduced with Scrambled siRNA GFP Lentivirus (Cat. No. LVP015-G) with no enhancer, 8 µg/ml Polybrene, or with 1X of abm's ViralEntry™ Transduction Enhancer (Cat. No. G515).

## ViralEntry™ Transduction Enhancer Outperforms Polybrene

abm's ViralEntry™ Transduction Enhancer is a next-generation solution designed to overcome the limitations of Polybrene. Unlike Polybrene, ViralEntry™ is compatible with both **adherent** and **suspension** formats, delivers a consistent 10X boost in transduction efficiency and maintains high potency across difficult to transduce cells such as **primary T cells**, all without the side effects commonly associated with traditional cationic polymers.

Feature	Polybrene		ViralEntry™ Transduction Enhancer	
Compatible Cell Culture Format	Adherent	X	Adherent & Suspension	✓
Potency in Primary Cells	Low	X	High	✓
Efficiency Boost	2-10X	X	10X	✓
Toxicity	High in Primary Cells	X	Uncommon	✓
Side Effects	Cell Clumping	X	None	✓



abm's ViralEntry™ Transduction Enhancer boosts transduction efficiency by up to 100X in a broad range of cells. HEK293T, HeLa, K562, Primary Human T Cells, and Primary Swine Spleen Macrophages were transduced with Scrambled siRNA GFP Lentivirus (Cat. No. LVP015-G) without using a transduction enhancer and using abm's ViralEntry™ Transduction Enhancer (Cat. No. G515).

	Product	Cat.No.	Concentration	Quantity
Lentivirus	ViralEntry™ Transduction Enhancer	G515	100X	1.0 ml
AAV	AAViralEntry™ Transduction Enhancer	G516	100X	1.0 ml

Request a [free sample!](#)